

# ***kuraray***



## **Product Catalog 2013**

Operative dentistry

Prosthetics

Pedodontics

Orthodontics

Laboratory & Dental Technology

# Company history

## More than 85 years of Kuraray








Kuraray was established in Kurashiki, Japan, in 1926, and was originally involved in the industrial production of synthetic fibers out of viscose. The company carried out intensive research and development work, creating a broad base of experience and technology in the sectors polymer chemistry, chemical synthesis, and chemical engineering. Thanks to its technological strength and comprehensive experience, Kuraray has been able to develop highly innovative products for many more selected fields of business.

Kuraray develops and produces today a broad range of high-quality and innovative products. The product line ranges from synthetic plastics to fine chemicals, non-woven textiles and synthetic leather to laser discs and medical supplies.

## Known brands

An entire series of product developments from Kuraray has become leading brands worldwide, e.g., "KURALON" on a polyvinyl-alcohol base, the polyvinyl alcohol copolymer "EVAL", synthetic leather with the brand name "CLARINO", and fine chemicals on an isoprene basis for perfumes, pharmaceutical products, and other special applications.

Today, the Kuraray group, consisting of Kuraray and its consolidated companies, has about 6,500 employees. Each of the companies in the Group has a distinct, individual profile and has set itself the goal of meeting the demand in its specific market segment at a high level of service and with focus on the customer.

1978	1978	1983	1985	1986	1993	1993
						
<b>CLEARFIL™ BOND SYSTEM-F</b>	<b>CRIES DETECTOR</b> (Prof. T. Fusayama)	<b>PANAVIA™</b>	<b>PHOTO CLEARFIL™ A</b>	<b>CLEARFIL™ PHOTO CORE</b>	<b>PANAVIA™ 21</b>	<b>CLEARFIL™ LINER BOND 2</b>
Kuraray introduces the first "total-etch" bonding system with a phosphate monomer (Phenyl-P)	First caries detection system, developed at Tokyo Medical and Dental University	First adhesive resin with a phosphate monomer (MDP)	First light-curing universal composite for anterior and posterior tooth restorations	First light-curing core build-up composite with a polymerization depth of 7 mm	First anaerobic-curing adhesive resin cement with a self-etching primer	World's first self-etching bonding system

2003 EU	2004 EU	2005 EU	2006 EU	2007 EU	2008 EU	2009 EU
						
<b>PANAVIA™ F 2.0</b>	<b>CLEARFIL™ PROTECT BOND</b>	<b>CLEARFIL™ S<sup>3</sup>BOND</b>	<b>CLEARFIL™ ESTHETIC CEMENT</b>	<b>CLEARFIL MAJESTY™ SERIES</b>	<b>CLEARFIL™ DC BOND</b>	<b>CLEARFIL™ SA CEMENT</b>
First resin cement which releases fluoride and is cured using LED light	First antibacterial self-etching adhesive in the world	Self-etching all-in-one adhesive	Esthetic resin cement with a self-etching primer	Esthetic composite resin line. Available as Esthetic, Posterior and Flow	Works perfectly with light-, dual-, and self-curing core build-up material	Self-adhesive resin cement in an automix syringe

## Entry onto the dental market

In 1973, Kuraray entered the business field of dental materials. The objective in this segment is to respond to requirements of dental practice precisely and carefully – with products which convince users by their reliability and high quality.

## Inventor of the bonding system

In 1978, Kuraray introduced the first bonding system to the market: CLEARFIL™ BOND SYSTEM-F, the start of the age of adhesive dentistry. At the same time, the company developed the “total-etch technique” for enamel and dentin. Today, more than a quarter of a century after entering the field of dentistry, Kuraray continues to steadily produce innovative quality products which meet the requirements of a profession which also develops constantly. Its products that make

history – such as PANAVIA™ F 2.0, CLEARFIL™ PROTECT BOND, CLEARFIL™ SE BOND and ESTENIA™ C&B – are proof of Kuraray’s capability to develop solutions for practice from the results of the pioneering research.

As science and society continue to develop, new questions and challenges also arise for dental materials. Kuraray Medical Inc. has set itself the goal of meeting demands and requirements of dentistry to the very best of its ability, now and in the future. Kuraray ensures that dentists will always have a reliable partner in this company by maintaining an intensive, regular exchange of information with its customers, through comprehensive research and development, and ongoing training. A partner who has the capability to offer solutions for a new era of protective filling therapy.

2000 EU

2001 EU



**CLEARFIL™ SE BOND**

Most reliable generation of self-etching bonding systems



**CLEARFIL™ AP-X PLT**

Long years of clinical experience and success, available in syringes and PLTs

2011 EU

2012 EU

2012 EU

2012 EU

2013 EU

2013 EU



**PANAVIA™ POST**

The new glass fiber post with excellent mechanical durability



**CLEARFIL™ S'BOND PLUS**

One-step self-etch adhesive with innovative light initiator



**CLEARFIL™ DC CORE PLUS**

Dual-cure core build-up material supplied in an automix syringe



**PANAVIA™ SA CEMENT**

Self-adhesive resin cement in an automix syringe



**CLEARFIL™ MAJESTY™ ES-2**

A nano-hybrid, esthetic and universal composite resin



**TEETHMATE™ DESENSITIZER**

The real solution for sensitive teeth

## MDP monomer

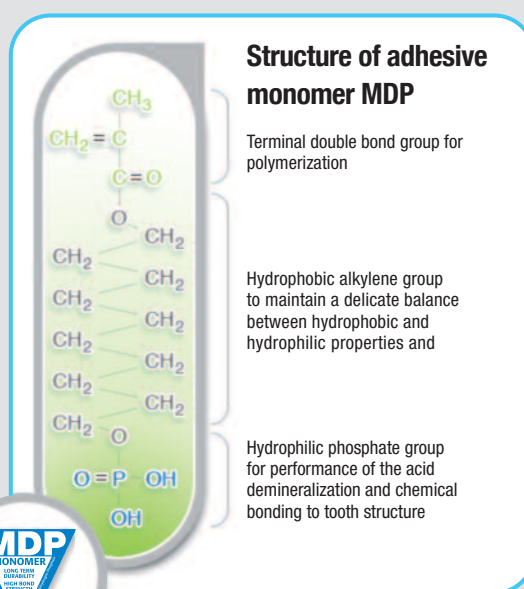


### Description

After Kuraray introduced the first adhesive monomer in dental history by inventing the phosphate monomer Phenyl-P in 1976, its molecular structure was improved in 1981 by creating a molecule with greater adhesive capability to the tooth structure and an affinity for metal. The result of this development work was the MDP monomer (10-Methacryloyloxydecyl dihydrogen phosphate), which convinced users by its special monomer structure:

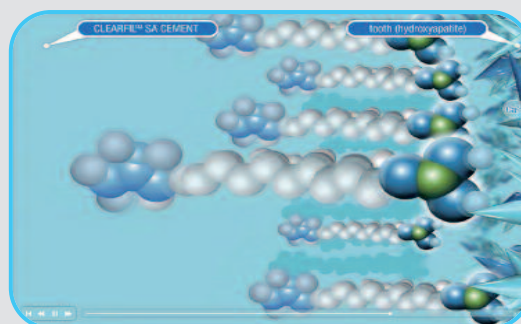
This phosphate monomer was extremely effective for enamel, dentin and on metal alloys. Consequently, PANAVIA™, including the MDP monomer, was introduced as a high-performance adhesive resin cement for the cementation to tooth structure and to metals.

The impressive success of PANAVIA™ encouraged Kuraray to integrate the MDP monomer into other bonding systems as well as to obtain a high degree of adhesion to tooth substrate from the formation of a chemical bonding.



### Website

Visit our website to find out more about the MDP monomer [www.kuraray-dental.eu/mdp](http://www.kuraray-dental.eu/mdp)



MDP - the secret of PANAVIA™, CLEARFIL™ SE BOND and many other Kuraray products.

# MDPB monomer



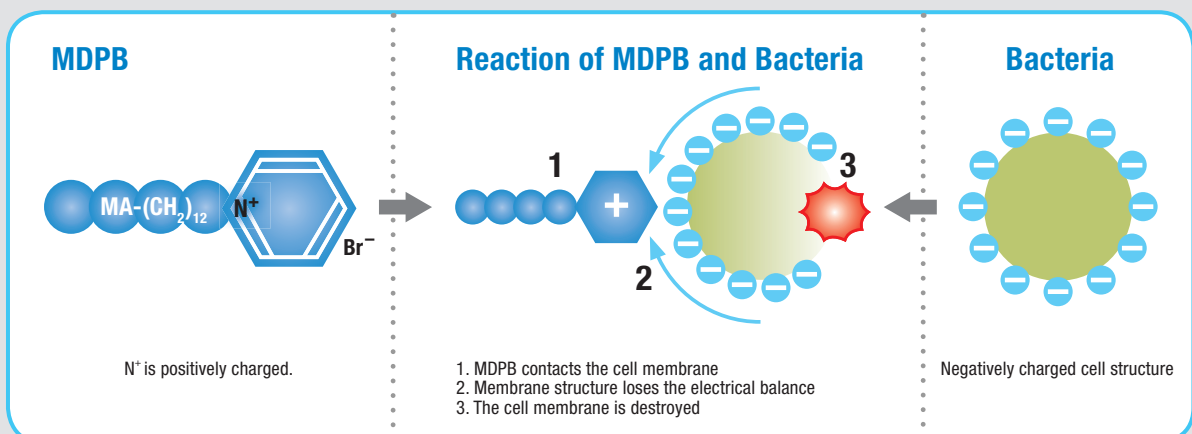
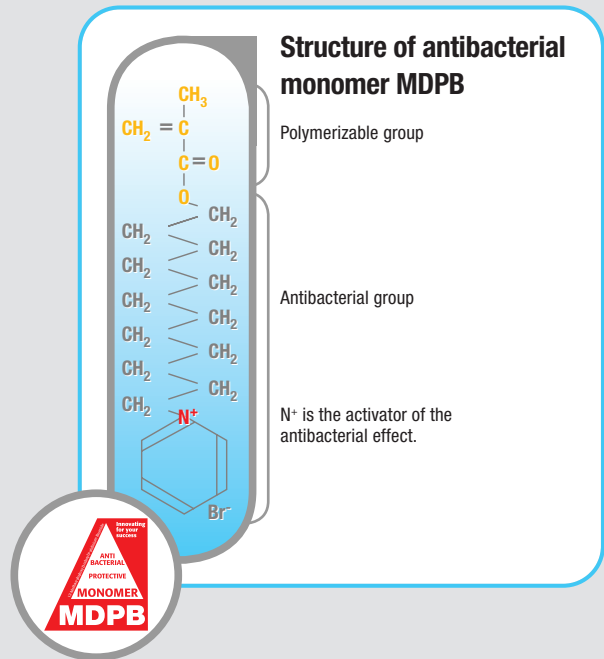
## Certified biocompatibility

The MDPB monomer is immobilized by the polymerization of the bonding layer. There it remains latently active without affecting the patient's own cells. The strength of the adhesive is not negatively affected by this process, patented by Kuraray, as is the case when chlorhexidine or other such cavity hygiene products are used. Moreover, it ensures that cytotoxic effects on the patient's own body cells such as odontoblasts are excluded long-term as well. These test results have been confirmed by the official biological safety test ISO 10993-1.



## Antibacterial effects of the MDPB monomer

The primer of CLEARFIL™ PROTECT BOND has antibacterial effects against bacteria by direct contact thanks to the integrated functional MDPB monomer. As is the case with so many modern developments, the question, "How can that work?" can be answered relatively easily: the pyridinium group as a component of the MDPB monomer (12-Methacryloyloxydodecyl pyridinium bromide) is positively charged. The cell structures of bacteria are generally negatively charged, which is why they are automatically attracted by the positively charged contact points of the MDPB monomer. They then lose their electrical balance, destroying the cell membrane of the bacteria. The bacteria are killed by this process, which is also known as bacteriolysis.



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# Adhesives

## Overview

	Classification	Direct restoration	Indirect restoration	Desensitization	Individual dosing possible
<b>Self-etch</b>					
<b>CLEARFIL™ S<sup>3</sup> BOND PLUS</b> 	1-step system	✓	✓ 1)	✓	✓
<b>CLEARFIL™ S<sup>3</sup> BOND</b> 	1-step system	✓	✓ 1)	✓	✓
<b>CLEARFIL™ SE BOND</b> 	2-step system	✓	✓ 1)	✓	✓
<b>CLEARFIL™ DC BOND</b> 	1-step system	✓	✓ 1)	✓	✓
<b>CLEARFIL™ LINER BOND 2V</b> 	2-step system	✓	✓ 1)	✓	✓
<b>Self-etch antibacterial</b>					
<b>CLEARFIL™ PROTECT BOND</b> 	2-step system	✓	✓ 1)	✓	✓
<b>Total-etch</b>					
<b>CLEARFIL™ PHOTO BOND</b> 	2-step system	✓	✓		✓
<b>CLEARFIL™ NEW BOND</b> 	2-step system	✓	✓		✓

- 1) After curing, the cured adhesive should be covered by a composite (e.g. CLEARFIL MAJESTY™ Flow) for indirect restoration.
- 2) Self-curing properties
- 3) Combination use with CLEARFIL™ DC CORE PLUS only



Light-curing	Self-curing	Curing time (light)	Combination with light-curing composites	Combination with self-curing composites	Page number
✓		10 sec.	✓	✓ 3)	12
✓		10 sec.	✓		14
✓		10 sec.	✓		16
✓	✓ 2)	10 sec. core build-ups: 20 sec.	✓	✓	18
✓	✓	20 sec.	✓	✓	20
✓		10 sec.	✓		24
✓	✓ 2)	10 sec.	✓	✓	22
	✓			✓	23

## CLEARFIL™ S<sup>3</sup> BOND PLUS (Clearfil™ tri-S bond plus)



#2890-EU CLEARFIL™ S<sup>3</sup> BOND PLUS Set  
1 bottle (4 ml) + accessories



### Facts

- Quick and time-saving with only one single application step: no shaking, no mixing, no rubbing, no multiple application
- Easy to use for low technical errors
- Stable performance thanks to Kuraray's adhesive monomer MDP, proven since more than 25 years!
- New high performance initiator for light-curing leading to an increased polymerization ratio
- Fluoride-releasing property for a reinforcement of the adhesive-dentin interface
- Precise and economic dosing

### Indications

- Direct restorations using light-cured composite resin
- Cavity sealing as a pretreatment for indirect restorations
- Treatment of exposed root surfaces
- Post cementation and core build-ups using dual-cured composite resin CLEARFIL™ DC CORE PLUS
- Intraoral repairs of fractured restorations made of ceramics, hybrid ceramics or composite resin
- Core build-ups using light-cured composite resin
- Surface treatment of prosthetic appliances made of ceramics, hybrid ceramics or composite resin
- Surface treatment of dental posts



### Description

CLEARFIL™ S<sup>3</sup> BOND PLUS is the one-step adhesive for direct restorations. It is developed based on the technology of CLEARFIL™ S<sup>3</sup> BOND which has five years of clinical evidence.\* Etching, priming and bonding steps are completed with a one-liquid, one-coat treatment. But there is even more – the main benefit for using one-step adhesives is to reduce the technique errors which might occur. Thanks to its short application time and very simple procedure compared with other recent one-step products CLEARFIL™ S<sup>3</sup> BOND PLUS reduces technical errors. It allows for a high error tolerance while creating excellent bond strength to enamel and dentin due to Kuraray's innovative adhesive technology, which has been successful for more than 30 years. Furthermore, CLEARFIL™ S<sup>3</sup> BOND PLUS ensures a stable interface between tooth and composite resin thanks to Kuraray's original adhesive monomer MDP, the new high performance initiator for light-curing and the innovative Molecular Dispersion Technology. The new CLEARFIL™ S<sup>3</sup> BOND PLUS also has a fluoride releasing property. In combination with the time saving and simple application procedure, this one-step adhesive will satisfy you with its excellent bond strength especially for all kinds of clinical situations, e.g. the therapy of children or core build-ups with the new CLEARFIL™ DC CORE PLUS.

\*Source: S. Kubo, A. Kawasaki, A. Kawakubo, and Hayashi: Five year clinical evaluation of two all-in-one systems, IADR Meeting 2011, Abstract #1144.

Now available as the new convenient  
Unit Dose for single applications!



## Product range CLEARFIL™ S<sup>3</sup>BOND PLUS

### #2890-EU Set

(1 bottle (4 ml), 50 applicator brushes (fine),  
1 dispensing dish, 1 light blocking plate)

### #2893-EU Value Kit

(3 bottles (4 ml each))

### Refill

#### #2892-EU Bond

1 bottle (4 ml)

#### #2898-EU Unit Dose Standard Pack

50 tips x 0.1 ml, 50 brushes

#### #2899-EU Unit Dose Standard Pack

50 tips x 0.1 ml, 100 brushes



## Product recommendations



### CLEARFIL MAJESTY™ ES-2

(color selection)

1 syringe Classic: 3.6 g/2.0 ml

1 syringe Premium: 3.6 g/2.0 ml

1 syringe Clear, Amber, Blue, Gray:

1.8 g/0.9 ml



### CLEARFIL MAJESTY™ ES-2 PLT

(color selection)

20 PLTs Classic (20 tips x 0.25 g)

10 PLTs Premium (10 tips x 0.25 g)



### CLEARFIL MAJESTY™ Flow

(color selection)

1 syringe: 3.2 g/1.5 ml



## CLEARFIL™ DC CORE PLUS Kit

#2940-EU Dentin

#2941-EU White

### Content

CLEARFIL™ DC CORE PLUS (White or  
Dentin): 1 syringe (17.9 g / 9 ml);

CLEARFIL™ S<sup>3</sup>BOND PLUS: 1 bottle (1 ml);

Accessories: 20 Mixing tips, 10 guide  
tips (L), 10 guide tips (S), 50 applicator  
brushes (endo), 1 dispensing dish, 1 light  
blocking plate



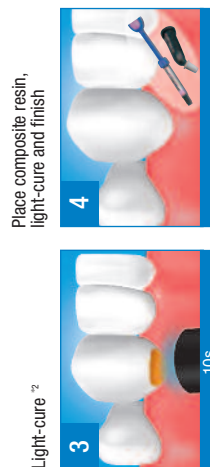
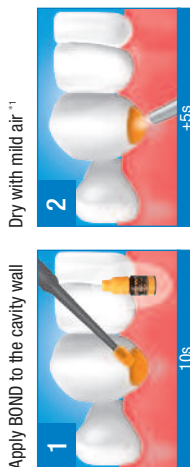
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- Kakuda, S., Hinamoto, A., Fu, J., Takei, M., Nishigaki, N., Okuyama, K., Nakaoki, Y., Ikeda, T., Sano, H.: Long term bonding performance of contemporary and experimental self-etching adhesives. 89<sup>th</sup> IADR, 2011 Abstract #1557, San Diego USA.
- Akimoto, N., Hanabusa, M., Miyauchi, T., Tokiwa, T., Momoi, Y.: Influence of Dentin Surface Conditions on Bond-strength with 1-bottle Systems. 89<sup>th</sup> IADR, 2011 Abstract #2462, San Diego USA.
- Irie, M., Tamada, Y., Maruo, Y., Nishigawa, G., Oka, M., Minagi, S., Suzuki, K., Watts, D. C.: Early No Interfacial-Gap Incidence vs. Flexural Modulus with Injectabel Composites. 89<sup>th</sup> IADR, 2011 Abstract #3203, San Diego USA.
- Hanabusa, M., Akimoto, N., Ohmori, K., Miyauchi, T., Tokiwa, T., Momoi, Y.: Bond-durability of an Experimental 1-bottle Self-adhesive After 3-months Water Storage. 89<sup>th</sup> IADR, 2011 Abstract #1090, San Diego USA.

Please read carefully the relevant instructions for use before utilizing the products.

## Direct restorations using light cured composite resin

Follow the standard procedures for moisture control, cavity preparation and pulp protection

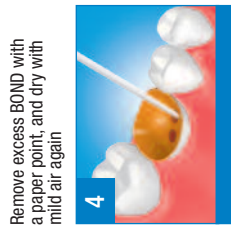
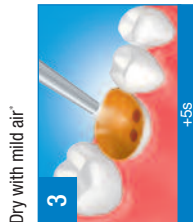
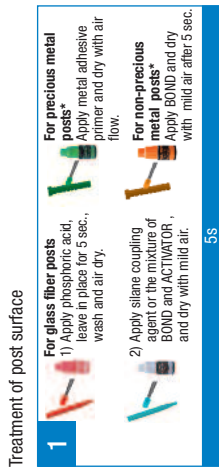


\*1 Dry the entire cavity wall sufficiently until BOND does not move. Use a vacuum aspirator to prevent BOND from scattering.

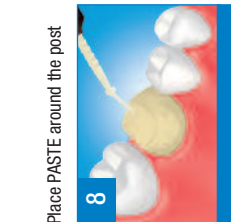
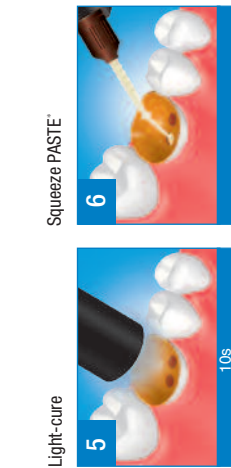
\*2 For dental curing unit details refer to the instruction for use.

## Post cementation and core build ups using dual-cured composite resin CLEARFIL™ DC CORE PLUS

Follow the standard procedures for moisture control, preparing root canal and try-in of the post



\* Dry the entire adherent surface sufficiently until BOND does not move. Use a vacuum aspirator to prevent BOND from scattering.



\*1 Refer to the table 2 for light-curing time.  
\*2 Leave PASTE more than 6 min. after light curing when the thickness of PASTE is greater than the specified curing depth.

## CLEARFIL™ S<sup>3</sup> BOND (Clearfil™ tri-S bond)



### Description

CLEARFIL™ S<sup>3</sup> BOND reaches maximum adhesive values after one application and without any hidden work steps in only 35 seconds.

Dentists have been using it successfully for some time in Japan and the USA. CLEARFIL™ S<sup>3</sup> BOND has been rated by two independent test institutes as the best all-in-one adhesive.



### Product range CLEARFIL™ S<sup>3</sup> BOND

#### #1990-EU Kit

(1 bottle (4 ml), 50 disposable brush tips, 1 brush tip handle, 1 mixing dish, 1 light blocking plate)

#### #1992-EU Value Kit

(3 bottles (4 ml), 150 disposable brush tips, 1 brush tip handle, 1 mixing dish, 1 light blocking plate)

#### #1995-EU Intro Kit

(1 bottle (4 ml))

### Refill

#### #1996-EU Refill

(1 bottle (4 ml))

#### #1997-EU Single Dose

(50 tips x 0.1 ml)



### Facts

- SPEED. SIMPLICITY. STRENGTH.
- Self-etching all-in-one adhesive with high bond strength
- No technique sensitivity: no mixing, no shaking, no multi-application
- Water/ethanol-based composition
- Prevents post-operative sensitivity
- Unique Molecular Dispersion Technology prevents phase separation



### Indications

- Direct restorations using light-cured composite resin
- Cavity sealing as a pretreatment for indirect restorations
- Treatment of exposed root surfaces
- Intraoral repairs of fractured crowns/bridges made of ceramic or composite resin
- Surface treatment of prosthetic appliances made of ceramic or composite resin
- Core build-ups using light- or dual-cured composite resin





### Notes on use

CLEARFIL™ S<sup>3</sup> BOND is a light-curing, all-in-one adhesive system which makes it possible to treat enamel and dentin simultaneously with only one liquid component and one application.

CLEARFIL™ S<sup>3</sup> BOND demonstrated greater adhesion to dentin in comparison with some other well-known single-component systems, irrespective of the previous mechanical retention.

Moreover, there is no phase separation between water and monomer in CLEARFIL™ S<sup>3</sup> BOND.

When some other products are used, water bubbles appear along the bonding surface.



### CLEARFIL MAJESTY™ Flow (color selection)

1 syringe: 3.2 g/1.5 ml



### For more safety

The CARIES DETECTOR stains tooth hard tissue affected by caries in red, while remineralized dentin is not stained, providing maximum security.

#220-EU CARIES DETECTOR (6 ml)



### Product recommendations



### CLEARFIL MAJESTY™ ES-2

(color selection)

1 syringe Classic: 3.6 g/2.0 ml

1 syringe Premium: 3.6 g/2.0 ml

1 syringe Clear, Amber, Blue, Gray:

1.8 g/0.9 ml



### CLEARFIL MAJESTY™ ES-2 PLT

(color selection)

20 PLTs Classic (20 tips x 0.25 g)

10 PLTs Premium (10 tips x 0.25 g)



### CLEARFIL MAJESTY™ Posterior

(color selection)

1 syringe: 4.9 g/2.0 ml



### CLEARFIL MAJESTY™ Posterior PLT

(color selection)

20 PLTs (0.25g/0.1 ml each)



### Bibliography

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Please read carefully the relevant instructions for use before utilizing the products.

## Direct restorations using light-cured composite resin

1 Apply BOND.



2 Dry with high-pressure air flow.



3 Light-cure.



4 Place composite resin restorative.



## Core build-ups using light- or dual-cured composite resin

1 Apply BOND.



2 Dry with high-pressure air flow.



4 Build-up core.



3 Light-cure.



6 Crown preparation can be started immediately.



## CLEARFIL™ SE BOND



**#1970-EU CLEARFIL™ SE BOND Kit**  
1 Primer (6 ml), 1 Bond (5 ml) + accessories



### Description

CLEARFIL™ SE BOND is a light-curing bonding system consisting of a self-etching primer and a bonding agent. The water-based primer enables the simultaneous treatment of enamel and dentin in one step. The patented MDP monomer helps to eliminate post-operative sensitivities. Direct skin contact with the contents of the bottles is avoided by the practical “Intelly Case”. The necessity to open the individual bottles has been eliminated, avoiding the risks of skin allergies. Moreover, the system prevents waste.



### Product range CLEARFIL™ SE BOND

**#1970-EU Kit**  
(Primer (6 ml), Bond (5 ml),  
2 x 50 disposable brush tips,  
2 brush tip handles, 1 mixing dish,  
1 light blocking plate, 1 outer case)

### Refill

**#1981-EU** Bond (5 ml)  
**#1982-EU** Primer (6 ml)  
**#968-EU** CLEARFIL™ brush tips, pack of 50 tips



### Facts

- Improved marginal sealing from extremely high bond strength
- Water-based, mild self-etching primer
- Tried and proven 2-step self-etching bonding system
- No technique sensitivity
- Prevents post-operative sensitivities
- Known as the “Gold Standard” of the self-etching adhesive systems



### Indications

- Direct filling restorations using light-cured composite or compomer
- Cavity sealing as a pretreatment for indirect restorations
- Treatment of hypersensitive and/or exposed root surfaces
- Intraoral repairs of fractured facing crowns made of ceramic, hybrid ceramic or composite resin using light-curing composite
- Surface treatment of prosthetic appliances made of ceramic, hybrid ceramic and cured composite



The Intelly Case (outer case) is used for the simple and precise application of the liquids.





## Product recommendations



### Pretreatment of the ceramic surface

When a restoration made of ceramic, hybrid ceramic or composite resin is used, it should first be silanized to optimize the adhesion properties. To create a silane, place one drop each of CLEARFIL™ SE BOND Primer and CLEARFIL™ PORCELAIN BOND ACTIVATOR together into a well of the mixing dish and mix them. Apply to the adherent surface for 5 seconds and dry with a mild air stream.

#1982-EU CLEARFIL™ SE BOND Primer (6 ml)

#061-EU CLEARFIL™ PORCELAIN BOND ACTIVATOR (4 ml)



You can also use the new CLEARFIL™ CERAMIC PRIMER (please see page 69).

#2550-EU CLEARFIL™ CERAMIC PRIMER (4 ml)



### CLEARFIL MAJESTY™ ES-2

(color selection)

1 syringe Classic: 3.6 g/2.0 ml

1 syringe Premium: 3.6 g/2.0 ml

1 syringe Clear, Amber, Blue, Gray:

1.8 g/0.9 ml



### CLEARFIL MAJESTY™ ES-2 PLT

(color selection)

20 PLTs Classic (20 tips x 0.25 g)

10 PLTs Premium (10 tips x 0.25 g)



### CLEARFIL MAJESTY™ Posterior

(color selection)

1 syringe: 4.9 g/2.0 ml



### CLEARFIL MAJESTY™ Posterior PLT

(color selection)

20 PLTs (0.25g/0.2 ml each)



### CLEARFIL MAJESTY™ Flow

(color selection)

1 syringe: 3.2 g/1.5 ml



### For more safety

The CRIES DETECTOR stains tooth hard tissue affected by caries in red, while remineralized dentin is not stained, providing maximum security.

#220-EU CRIES DETECTOR (6 ml)



## Bibliography

- Inoue, S. / Van Meerbeek, B. / Vargas, M. / Yoshida, Y. / Lambrechts, P. / Vanherle, G.: Adhesion mechanism of self-etching adhesives. In: Tagami, J. / Toledano, M. / Prati, C. (eds). Proceedings of 3rd International Kuraray Symposium on Advanced Dentistry. Como: Grafiche Erredue 2000.
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- Jan W.V. van Dijken: A prospective 8-year evaluation of a mild two-step self-etching adhesive and a heavily filled two-step etch-and-rinse system in non-carious cervical lesions. Dental Materials 26 (2010) 940–946.
- MC Erhardt, R Osorio, J Pisani-Proenca FS Aguilera, E Osorio, L Breschi, M Toledano: Effect of Double Layering and Prolonged Application Time on MTBS of Water/Ethanol-based Self-etch Adhesives to Dentin. Operative Dentistry, 2009, 34-5, 571-577.
- Atsushi Mine, Jan De Munck, Marcio V. Cardoso, Kirsten L. Van Landuyt, André Poitevin, Takuo Kuboki, Yasuhiro Yoshida, Kazuomi Suzuki, Paul Lambrechts, Bart Van Meerbeek: Bonding effectiveness of two contemporary self-etch adhesives to enamel and dentin. Journal of Dentistry 37 (2009) 872–883.
- K. Huber, G.C. Lier, B. Bott, and M. Hannig: Marginal Adaptation of Composite Resin Restorations Using Self-etching Adhesives. IADR, 2004 Abstract #59, Israel.
- Claus-Peter Ernst, Pia Galler, Brita Willershausen, Bernd Haller: Marginal integrity of class V restorations: SEM versus dye penetration. Dental Materials 24 (2008) 319–327.
- Li N, Nikaïdo T, Takagaki T, Sadr A, Makishi P, Chen J, Tagami J.: The role of functional monomers in bonding to enamel: acid-base resistant zone and bonding performance. Journal of Dentistry 2010 Sep;38(9):722-30.

Please read carefully the relevant instructions for use before utilizing the products.

## Intraoral repairs of fractured facing crowns made of porcelain, hybrid ceramics or composite resin using light-curing composite

<b>1</b>	Diamond point.	<b>2</b>	Apply K-ETCHANT GEL. 5s	<b>3</b>	Wash.	<b>4</b>	Dry with air flow.	<b>5</b>	Apply ALLOY PRIMER.
<b>6</b>	Apply Mixture of PRIMER and CLEARFIL™ PORCELAIN BOND ACTIVATOR. 5s	<b>7</b>	Dry with mild air flow. H <sub>2</sub> O	<b>8</b>	Apply BOND.	<b>9</b>	Air flow gently.	<b>10</b>	Light-cure.
<b>11</b>	Opaque resin.	<b>12</b>	Light-cure.	<b>13</b>	Restorative.				

## Direct filling restorations using light-curing composite or compomer

<b>1</b>	Apply PRIMER. 20s	<b>2</b>	Dry with mild air flow. H <sub>2</sub> O	<b>3</b>	Apply BOND.	<b>6</b>	Place composite or compomer restorative.
<b>4</b>	Air flow gently.	<b>5</b>	Light-cure. 10s				

## CLEARFIL™ DC BOND



**#2510-EU CLEARFIL™ DC BOND Kit**  
Liquid A (4 ml), Liquid B (4ml) + accessories

THE DENTAL  
ADVISOR  
++++½



### Facts

- Easy to use – no shaking or layering needed
- Single-step application: All-in-one adhesive based on a 2 liquid bonding agent
- Works perfectly with light-, dual-, and self-curing core build-up material
- Unique Molecular Dispersion Technology prevents phase separation of the mixed solution
- Mild self-etching and secure coating on dentin to reduce sensitivity
- Water/ethanol-based composition
- Reliable bond strength in combination with all composites (light-, dual- and self-curing composites) due to the dual-curing catalyst system of Kuraray

### Indications

- Core build-ups using light-, dual-, or self-curing composite resin
- Direct restorations using light-curing or self-curing composite resin
- Cavity sealing\* as a pretreatment for indirect restorations
- Treatment of exposed root surfaces
- Intraoral repairs of fractured crowns/bridges made of ceramics, hybrid ceramics or composite resin



### Description

CLEARFIL™ DC BOND is a self-etching dual-curing adhesive. It is the ideal adhesive for core build-up materials, especially for self-curing or dual-curing composites. The mild self-etching formula is suitable for the treatment to root canals instead of total-etching adhesives as here the strong acid remaining in a root canal causes damage to dentin due to insufficient washing.

The self-curing catalysts in CLEARFIL™ DC BOND accelerate the polymerization speed of self-curing or dual-curing composites from the bond layer. The polymerization system reduces the shrinkage stress of self-curing composites on the tooth interface.

It is very easy to use – no shaking or layering is needed. Simply mix the two solutions 1:1, apply, dry and cure.



### Product range CLEARFIL™ DC BOND

#### #2510-EU Kit

Liquid A (4 ml), Liquid B (4 ml),  
50 x disposable brush tips,  
1 brush tip handle, 1 mixing dish,  
1 light blocking plate

#### #2511-EU Introductory Set

Liquid A (1 ml), Liquid B (1 ml)

#### #2512-EU Liquid A (4 ml)

#### #2513-EU Liquid B (4 ml)

\* After light-curing, the cured adhesive surface should be covered by composite (e.g. CLEARFIL MAJESTY™ Flow) for the indirect restoration

## Product recommendations



For core build-ups  
**CLEARFIL™ DC CORE PLUS**  
#2942-EU Dentin  
#2943-EU White

### Content

1 syringe (17.9 g/9 ml) in corresponding color, 20 mixing tips, 10 guide tips (L), 10 guide tips (S)



#1031-EU Mixing tip (for CLEARFIL™ DC CORE PLUS): 20 tips



#1029-EU Guide tip (L) (for CLEARFIL™ DC CORE PLUS): 20 tips



#1030-EU Guide tip (S) (for CLEARFIL™ DC CORE PLUS): 20 tips



Pretreatment of the post surface:

Metal post

#064-EU ALLOY PRIMER (5 ml)



Glass fiber post  
(e.g. PANAVIA™ POST)

#2550-EU CLEARFIL™ CERAMIC PRIMER (4 ml)



For more safety

The CARIES DETECTOR stains tooth hard tissue affected by caries in red, while remineralized dentin is not stained, providing maximum security.

#220-EU CARIES DETECTOR (6 ml)



## Bibliography

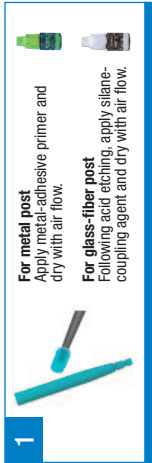
- Ishii T, Ohara N, Oshima A, Koizumi H, Nakazawa M, Masuno T, Matsumura H.: Bond strength to bovine dentin of a composite core build-up material combined with four different bonding agents. J Oral Sci. 2008 Sep;50(3):329-33.

Please read carefully the relevant instructions for use before utilizing the products.

## Core build-ups using light-, dual-, or self-cure composite resin

Mix equal amounts of liquid A&B. The mixture must be covered with light blocking plate and used within 90 sec. after mixing.

Treatment of post surface.



Remove excess BOND with paper point.



Dry with high-pressure air flow again.



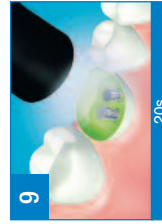
Light-cure.



Apply composite resin for core build-up into the root canal.



Insert the post into the root canal and fix it in place.



Dry with high-pressure air flow.



Apply BOND.



Mix equal amounts of liquid A&B. The mixture must be covered with light blocking plate and used within 90 sec. after mixing.



Apply BOND.



Dry with high-pressure air flow.



Apply light-cure composite resin.



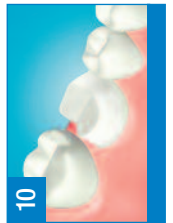
Light-cure.



Light-cure.



Core build-up - Prepare an abutment tooth.



## Direct restorations using light-cure composite resin

## CLEARFIL™ LINER BOND 2V



# 1921-EU CLEARFIL™ LINER BOND 2V DC Kit  
4 bottles + accessories



### Description

CLEARFIL™ LINER BOND 2V enables the processing of all light-curing and chemically curing composites as well as amalgamates. It can therefore be described as a “universal bonding.”

The bonding system comprises a self-etching two-component primer and a two-component bonding agent. The mild self-etching bonding system forms a high quality hybrid layer. Yet it achieves optimal adhesion and at the same time prevents post-operative sensitivities.

During the commonly used etching procedure, the exposed collagen network collapses. This is one of the major problems in conventional total-etch bonding systems because it results in a decreased bonding strength. In contrast to this, CLEARFIL™ LINER BOND 2V is biocompatible with respect to the tooth tissue. Thanks to the mild etching and decalcification effect of the primer as well as its natural water content, the collagen fiber network retains its natural form and volume. These properties of CLEARFIL™ LINER BOND 2V guarantee successful adhesion of both the tooth and the restoration.



### Facts

- Tried and proven 2-step self-etching bonding system
- Suitable for light-curing, chemically curing and dual-curing composites
- High adhesive properties to enamel and dentin
- Water-based, mild self-etching
- Prevents post-operative sensitivities



### Indications

- Direct filling restorations using light-curing or chemically curing composite
- Treatment of hypersensitive and/or exposed root surfaces
- Cavity sealing as a pre-treatment for indirect restorations
- Intraoral repairs of fractured ceramic facing crowns using light-curing composite
- Cementing inlays and onlays made of ceramic (or composite) using composite resin cement



### Product range

#### CLEARFIL™ LINER BOND 2V

##### #1921-EU DC Kit

Primer: Liquid A (6 ml), Liquid B (6 ml);  
Bond: Liquid A (5 ml), Liquid B (3 ml),  
accessories

##### #1920-EU Kit

Primer: Liquid A (6 ml), Liquid B (6 ml);  
Bond: Liquid A (5 ml), accessories

### Refill

#1943-EU Primer: Liquid A (6 ml)

#1944-EU Primer: Liquid B (6 ml)

#1930-EU Bond: Liquid A (5 ml)

#1931-EU Bond: Liquid B (3 ml)



## Product recommendations



### For more safety

The CARIES DETECTOR stains tooth hard tissue affected by caries in red, while remineralized dentin is not stained, providing maximum security.

**#220-EU** CARIES DETECTOR (6 ml)

### Dual-curing core build-up composite

CLEARFIL™ DC CORE PLUS produces outstanding reliable and esthetic restorations thanks to the optimal easy-to-use paste handling and the simplified procedure.



### CLEARFIL™ DC CORE PLUS

**#2942-EU** Dentin

**#2943-EU** White

### Content

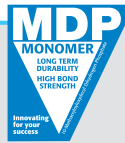
1 syringe (17.9 g/9 ml) in corresponding color,  
20 mixing tips, 10 guide tips (L),  
10 guide tips (S)



## Bibliography

- Akimoto N, Takamizu M, Momoi Y.: 10-year clinical evaluation of a self-etching adhesive system. Oper Dent. 2007 Jan-Feb;32(1): 3-10.
- Duarte RM, de Goes MF, Montes MA. Effect of time on tensile bond strength of resin cement bonded to dentine and low-viscosity composite. J Dent. 2005 May 25.
- Kwong SM, Cheung GS, Kei LH, Itthagarun A, Smales RJ, Tay FR, Pashley DH. Micro-tensile bond strengths to sclerotic dentin using a self-etching and a total-etching technique. Dent Mater. 2002 Jul;18(5):359-69.

## CLEARFIL™ PHOTO BOND



### Facts

- High bond strength to tooth enamel and dentin
- Both light-curing and self-curing
- Simple processing
- Economical use

### Indications

- Enamel and dentin bonding agent for direct composite restorations

### Description

CLEARFIL™ PHOTO BOND is a dual-curing adhesive for enamel and dentin based on the total-etch technique. The substance has been developed for use with light-curing and dual-curing restoration materials. In addition, direct adhesion to ceramic can be achieved by mixing with CLEARFIL™ PORCELAIN BOND ACTIVATOR.

### Product range CLEARFIL™ PHOTO BOND

- #075-EU Catalyst (6 ml),  
Universal (6 ml)

### Refill

- #073-EU Catalyst (6 ml)
- #074-EU Universal (6 ml)

### Product recommendations



K-ETCHANT GEL is especially well-suited for the etching of teeth, cleaning of the adherent surface of restorations, or activation of the surface of silica-based ceramics. The tixotropic property provides simple processing of the 40% phosphoric acid.

#013-EU K-ETCHANT GEL: 6 ml



CLEARFIL™ SA PRIMER is an adhesion primer containing salicylic acid derivative monomer to promote the affinity to collagen fibers. CLEARFIL™ SA PRIMER enhances bond strength of CLEARFIL™ PHOTO BOND.

#066-EU CLEARFIL™ SA PRIMER: 6 ml

### Bibliography

- Loomans BA, Opdam NJ, Roeters JF, Bronkhorst EM, Plasschaert AJ: Influence of composite resin consistency and placement technique on proximal contact tightness of Class II restorations. Journal of Adhesive Dentistry. 2006 Oct;8(5):305-10.



## CLEARFIL™ NEW BOND



### Facts

- High bond strength to tooth enamel and dentin
- Self-curing
- Simple processing
- Economical use



### Indications

- Enamel and dentin bonding agent for direct composite restorations



### Description

CLEARFIL™ NEW BOND is a self-curing adhesive for enamel and dentin based on the total-etch technique. The substance has been developed for use with self-curing composite restoration materials. In addition, direct adhesion to ceramic can be achieved by mixing with CLEARFIL™ PORCELAIN BOND ACTIVATOR.



### Product range CLEARFIL™ NEW BOND

- #055-EU Catalyst (6 ml),  
Universal (6 ml)

### Refill

- #053-EU Catalyst (6 ml)
- #054-EU Universal (6 ml)



### Product recommendation



K-ETCHANT GEL is especially well-suited for the etching of teeth, cleaning of the adherent surface of restorations, or activation of the surface of silica-based ceramics. The xitotropic property provides simple processing of the 40% phosphoric acid.

#013-EU K-ETCHANT GEL: 6 ml



## CLEARFIL™ PROTECT BOND

The antibacterial bond system



#1910-EU CLEARFIL™ PROTECT BOND Kit



- Surface treatment of prosthetic appliances made of porcelain, hybrid ceramics and cured composite resin
- Core build-ups using light- or dual-curing composite resin
- Cavity sealing under amalgam restorations

### Description

CLEARFIL™ PROTECT BOND develops an antibacterial effect with respect to the relevant causes of caries. The antibacterial effect of the MDPB monomer has been convincingly shown in single and comparison tests. Examinations by the Pulp Biology Group (University of Birmingham) show a clear reduction of cultivatable bacteria from MDPB in cavity preparations in teeth with natural caries. Yet no harmful effects on the vitality of the odontoblasts and fibroblasts were determined. Three more studies were concerned with possible biological effects.



### Facts

- First and still the only self-etching, antibacterial adhesive in the world
- The primer contains 5% antibacterial monomer (MDPB), which shows high antibacterial property
- Tried and proven 2-step self-etching bonding system
- Prevents post-operative sensitivities
- Fast and simple use
- High bond strength to enamel and dentin



### Indications

- Direct restorations using light-cured composite resin or compomer
- Cavity sealing as a pre-treatment for indirect restorations
- Treatment of hypersensitive and/or exposed root surfaces
- Intraoral repairs of fractured crowns/bridges made of porcelain, hybrid ceramics or composite resin using light-cured composite resin



### Product range CLEARFIL™ PROTECT BOND

#### #1910-EU Kit

- Primer (6 ml)
- Bond (5 ml)
- 2 x 50 disposable brush tips
- 2 brush tip handles
- 1 mixing dish
- 1 light blocking plate
- 1 outer case (Intelly-Case)

#### #1912-EU Intro Kit

- Primer (1.2 ml)
- Bond (1 ml)

### Refill

- #1913-EU Bond (5 ml)
- #1914-EU Primer (6 ml)
- #968-EU CLEARFIL™ brush tips, pack of 50 tips



## Product recommendations



### For more safety

The CARIES DETECTOR stains tooth hard tissue affected by caries in red, while remineralized dentin is not stained, providing maximum security.

#220-EU CARIES DETECTOR: 6 ml



### CLEARFIL MAJESTY™ ES-2

(color selection)

1 syringe Classic: 3.6 g/2.0 ml

1 syringe Premium: 3.6 g/2.0 ml

1 syringe Clear, Amber, Blue, Gray:

1.8 g/0.9 ml



### CLEARFIL MAJESTY™ ES-2 PLT

(color selection)

20 PLTs Classic (20 tips x 0.25 g)

10 PLTs Premium (10 tips x 0.25 g)



### CLEARFIL MAJESTY™ Posterior

(color selection)

1 syringe: 4.9 g/2.0 ml



### CLEARFIL MAJESTY™ Posterior PLT

(color selection)

20 PLTs (0.25g/0.2 ml each)



### CLEARFIL MAJESTY™ Flow

(color selection)

1 syringe: 3.2 g/1.5 ml

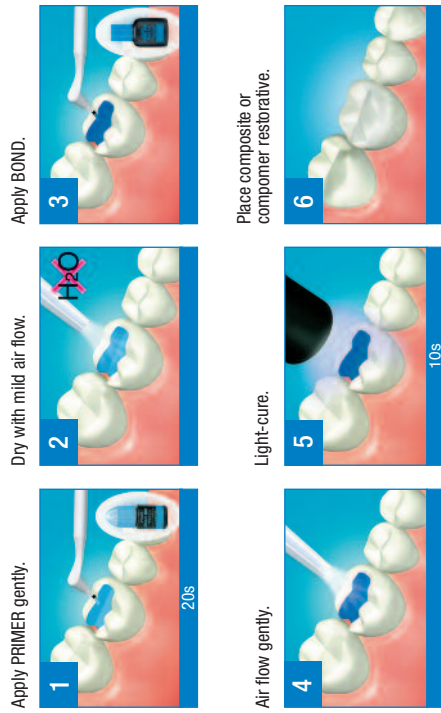


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- S. Imazato / R. R. B. Russell / J. F. McCabe – Antibacterial activity of MDPB polymer incorporated in dental resin – Department of Oral Biology and Dental Materials Science Unit, The Dental School, University of Newcastle upon Tyne – Journal of Dentistry (1995) 23 (3), 177–181.
- G. Schmalz, Z. Ergücü, and K. - A. Hiller: Effect of Dentin on the Antibacterial Activity of Dentin Bonding Agents. Journal of Endodontics vol. 30, no. 5, MAY 2004, 352-358.
- K.Waidyasekera, T.Nikaido, DS.Weerasinghe, S.Ichinose, J.Tagami: Reinforcement of dentin in self-etch adhesive technology: a new concept. Journal of Dentistry 2009;37(8):604-9.
- L.S.Turkun: Five year clinical performance of an antibacterial adhesive system, Pan. European Federation of IADR, 2008, Abstract #623.
- Marchesi G, Navarra CO, Cadenaro M, Carrilho MR, Codan B, Sergio V, Di Lenarda R, Breschi L.: The effect of aging on the elastic modulus and degree of conversion of two multistep adhesive systems. Eur J Oral Sci. 2010 Jun;118(3):304-10.
- Bortolotto T, Doudou W, Stavridakis M, Ferrari M, Krejci I.: Marginal adaptation after aging of a self-etching adhesive containing an antibacterial monomer. Journal of Adhesive Dentistry 2007 Jun;9(3):311-7.





Please read carefully the relevant instructions for use before utilizing the products.

## Direct restorations using light-cured composite resin or compomer



# Resin cements

## Overview

			Indications				
	Type	Mixing	Crowns/ bridges	Inlays/ onlays	Cores/ posts	Adhesion bridges	Veneers
<b>PANAVIA™ SA CEMENT</b> 	self-adhesive resin cement	auto mixing	✓	✓	✓		
<b>CLEARFIL™ ESTHETIC CEMENT</b> 	self-etching primer / resin cement	auto mixing	✓	✓	✓	✓	✓
<b>PANAVIA™ F 2.0</b> 	self-etching primer / resin cement	hand mixing	✓	✓	✓	✓	✓
<b>PANAVIA™ 21</b> 	self-etching primer / resin cement	hand mixing	✓	✓		✓	✓

- 1) with ED PRIMER II
- 2) with ED PRIMER
- 3) with CLEARFIL™ CERAMIC PRIMER
- 4) with CLEARFIL™ PORCELAIN BOND ACTIVATOR and CLEARFIL™ SE BOND PRIMER
- 5) with ALLOY PRIMER

\* recommendation

Adhesion to						Curing systems			Fluoride release	Page number
Enamel	Dentin	Metal-oxide ceramics	Silica-based ceramics	Precious metal	Non-precious metal	Curing type	Anaerobic curing	With OXY-GUARD		
✓	✓	✓	✓ 3)	✓	✓	dual-curing			✓	26
✓ 1)	✓ 1)	✓ 3)	✓ 3)	✓ 5)	✓ 5)	dual-curing				28
✓ 1)	✓ 1)	✓	✓ 3), 4)	✓ 5)*	✓	dual-curing	✓	✓	✓	30
✓ 2)	✓ 2)	✓	✓ 3), 4)	✓ 5)*	✓	self-curing	✓	✓		32

## PANAVIA™ SA CEMENT



#2980-EU PANAVIA™ SA CEMENT (Universal: A2)

#2981-EU PANAVIA™ SA CEMENT (White)



### Description

SA CEMENT Automix by Kuraray has been relaunched as part of the PANAVIA™ brand with an expanded range of indications including cementation of restorations on implant abutments. The PANAVIA™ brand can look back on a scientific and clinical track record spanning more than 25 years and is the specialized universal resin cement of choice for difficult clinical situations.

One-step and reliable strong bonding strength ...

PANAVIA™ SA CEMENT Automix is a selfadhesive resin cement with dual-curing (light and/or self-curing) properties for simple luting without etching or other pretreatment of the tooth structure. It provides a reliable level of enamel, dentin, metal oxide ceramic and metal. This is due to Kuraray's adhesive technology based on a proprietary adhesive phosphate monomer "MDP". The paste in PANAVIA™ SA CEMENT Automix can be mixed without "capsule mixing device" and applied directly from the syringe into the restoration. The speedy and clean delivery system avoids the possible contamination that may arise in daily clinical use.

... with perfect clean-up

PANAVIA™ SA CEMENT Automix offers an unrivaled easy removal of the excess cement. This easy clean-up property minimizes the possibility of remaining excess cement in the gingival sulcus that causes the inflammation of gingival. Furthermore it also reduces the risk of damages to the gingival and prosthetic in the process of removing excess cement by mistake. For the cementation of restorations on implant abutments, which requires stricter management of excess cement, PANAVIA™ SA CEMENT Automix is the right solution.



### Facts

- Self-adhesive, dual-curing, resin cement
- One step & simplified application system with auto-mixing delivery
- Excellent removal of excess paste with time saving
- Strong bond strength to tooth, metal and metal oxide ceramics (e.g. zirconia)
- Reliable marginal integrity
- Fluoride releasing



### Indications

- Cementation of crowns, bridges, inlays and onlays made of ceramic, hybrid ceramics, composite resin or metal
- Cementation of ceramic, hybrid ceramics, composite resin or metal restorations on implant abutments
- Cementation of metal cores, resin cores, metal posts or glass fiber posts



## Product range PANAVIA™ SA CEMENT



### Standard Kit

#2980-EU Universal: A2

#2981-EU White

#### Content

1 syringe (8.3 g/4.6 ml): Paste A (4.3 g/2.3 ml) + Paste B (4.0 g/2.3 ml),  
Mixing tips: 20 tips



### Value Kit

#2982-EU Universal: A2

#2983-EU White

#### Content

3 syringes (8.3 g/4.6 ml) each:  
Paste A (4.3 g/2.3 ml) + Paste B (4.0 g/2.3 ml),  
Mixing tips: 2 x 20 tips,  
Endo tips: 10 tips



## Accessories



#2988-EU Mixing tip: 20 tips



#2989-EU Endo tip: 20 tips



#2831-EU DISPENSER: 5 ml



## Product recommendations



The new PANAVIA™ POST shows excellent mechanical durability thanks to the optimal elastic modulus and Kuraray's proven adhesive technologies.

#1190-EU Introductory Kit

#### Content

2 pcs. each of sizes 3, 4, 5 and 6



## Bibliography

- Belli R, Pelka M, Petschelt A, Lohbauer U.: In vitro wear gap formation of self-adhesive resin cements: a CLSM evaluation. Journal of Dentistry 2009 Dec;37(12):984-93.
- Nakamura T, Wakabayashi K, Kinuta S, Nishida H, Miyamae M, Yatani H. J.: Mechanical properties of new self-adhesive resin-based cement. Prosthodontic Res. 2010 Apr;54(2):59-64.
- C. Mazzitelli, F. Monticelli A. Casucci, M. Toledano, R. Osorio, and M. Ferrari: Bonding effectiveness of self-adhesive cements to perfused dentin. European Federation of IADR, 2008, Abstract #56.
- A. Sadr, Y. Shimada, and J. Tagami: Microleakage of Class-V Inlays using an Experimental Self-Adhesive Resin Cement. IADR, 2008, 86th General Session & Exhibition in Toronto Abstract #56.



PANAVIA™ SA CEMENT - the self-adhesive resin cement, easy to clean up excess material whilst creating a strong bond.




Please read carefully the relevant instructions for use before utilizing the products.

## Indication: 1.Cementation of crowns, bridges, inlays and onlays made of ceramic, hybrid ceramics, composite resin or metal 2.Cementation of ceramic, hybrid ceramics, composite resin or metal restorations on implant abutments

Clean and dry the tooth surface, and then trial fit the prosthetic restoration.

**1**



Blast with alumina powder, then ultrasonic clean and dry. If the restoration surface is made of silica-based ceramic, apply a phosphoric acid or hydrofluoric acid, wash and dry. Then, apply a silane coupling agent.

**2**



Apply the mixed paste to the prosthetic restoration. If the paste is applied onto the tooth, start steps 2 within 40 seconds after application of the paste.

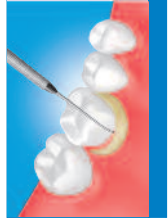
**3**



Place the prosthetic restoration on the tooth.

**Maintain isolation for 5 minutes.**  
For a translucent restoration, light-cure the entire surface and margins for 20 seconds. For dental curing unit details, refer to the instructions for Use.

**4**



Light-cure for 2 to 5 seconds or chemical-cure for 3 to 5 minutes, then remove the excess cement.


**6**



## Cementation of metal cores, resin cores, metal posts or glass fiber posts (For the glass fiber post)

Clean and dry the prepared cavity, and then trial fit the post.

**1**



Apply the cement paste mix into the cavity. Start step 2 within 40 seconds after application of the cement.

**2**



Place the post quickly into the cavity slightly vibrating it to prevent air bubbles from entering the root canals.

**3**



Light-cure for 2 to 5 seconds or chemically cure for 3 to 5 minutes.

Apply a bonding agent and load a core, build-up composite resin according to the instructions for Use.

**5**



Light-cure margins of the post.

**6**



## CLEARFIL™ ESTHETIC CEMENT



### Description

A significant increase in ceramic (incl. zirconium oxide and aluminum oxide) restorations has been noted in recent years, as has the steady rise of metal free restorations. A trend which will continue to gather force. CLEARFIL™ ESTHETIC CEMENT has been developed against this background. CLEARFIL™ ESTHETIC CEMENT is available in 5 color shades which can be used with CLEARFIL™ CERAMIC PRIMER to offer strong adhesion to esthetic materials. The cement offers a dual-curing system; the self-curing system reduces the polymerization stress in the adhesion interface due to the self-etching primer “ED PRIMER II” including accelerators, and the light-curing generates good marginal sealing of the restoration and high wear resistance of the cement surface. The practical TRY IN PASTES in identical colors allow you to test the color you wish to use for the restoration. The TRY IN PASTE can be easily and quickly washed away. The practical automix syringe automatically mixes the two pastes of the cement. The cement can be applied directly in the restoration causing nearly no air bubbles.



### Facts

- Esthetic resin cement for ceramics (e.g. zirconium oxide, aluminum oxide and silica-based ceramics), hybrid ceramic (ESTENIA™ C&B), and composite resin restorations
- 5 color shades for esthetic restorations
- High bond strength, high mechanical strength and high wear resistance
- Reliable cement system with a self-etching primer “ED PRIMER II” to tooth structure
- New single-liquid Ceramic Primer “CLEARFIL™ CERAMIC PRIMER” for ceramic restorations
- TRY IN PASTES (test pastes) in identical colors to test the color matching of restorations (can be washed off immediately)
- Practical automixing syringe

### Indications

- Cementation of crowns, bridges, inlays and onlays made of ceramic, hybrid ceramic, composite resin or metal
- Cementation of veneers
- Cementation of adhesion bridges
- Cementation of metal cores, resin cores, metal posts or glass fiber posts



## Product range CLEARFIL™ ESTHETIC CEMENT

### Complete Kit

#2520-EU

#### Content

5 Esthetic cement syringes in the colors Universal, Brown, Clear, Opaque White and Opaque Yellow: 2.4 ml each  
5 TRY IN PASTEs (test pastes) identical in color (1.8 ml each)  
1 ED PRIMER II Liquid A: 4 ml  
1 ED PRIMER II Liquid B: 4 ml  
1 CLEARFIL™ CERAMIC PRIMER: 4 ml  
1 ALLOY PRIMER: 1 ml  
1 K-ETCHANT GEL: 6 ml  
Accessories: 2 x 20 mixing tips, 1 light blocking plate, 1 mixing dish, 1 paper pad, 1 spatula, 50 disposable brush tips (white), 50 disposable brush tips (black), brush tip handle (white), brush tip handle (black).

### Kit

#2521-EU Universal  
#2522-EU Brown  
#2523-EU Clear

#### Content

1 Esthetic cement in the corresponding color: 4.6 ml  
1 TRY IN PASTE (test paste) identical in color: 1.8 ml  
1 ED PRIMER II Liquid A: 4 ml  
1 ED PRIMER II Liquid B: 4 ml  
1 CLEARFIL™ CERAMIC PRIMER: 4 ml  
1 ALLOY PRIMER: 1 ml  
1 K-ETCHANT GEL: 6 ml  
and accessories (see “Complete Kit” - but with 20 mixing tips)

### Half Kit

#2561-EU Universal  
#2562-EU Brown  
#2563-EU Clear

#### Content

1 Esthetic cement in the corresponding color: 2.4 ml  
1 TRY IN PASTE (test paste) identical in color: 1.8 ml  
1 ED PRIMER II Liquid A: 1 ml  
1 ED PRIMER II Liquid B: 1 ml  
1 CLEARFIL™ CERAMIC PRIMER: 2 ml  
1 ALLOY PRIMER: 1 ml  
1 K-ETCHANT GEL: 6 ml  
and accessories (see “Complete Kit” - but with 10 mixing tips)

### Refill

#2531-EU Universal: 4.6 ml  
#2532-EU Brown: 4.6 ml  
#2533-EU Clear: 4.6 ml  
#2534-EU Opaque White: 4.6 ml  
#2535-EU Opaque Yellow: 4.6 ml  
+ 20 mixing tips per cement refill

#2541-EU TRY IN PASTE Universal: 1.8 ml  
#2542-EU TRY IN PASTE Brown: 1.8 ml  
#2543-EU TRY IN PASTE Clear: 1.8 ml  
#2544-EU TRY IN PASTE Opaque White: 1.8 ml  
#2545-EU TRY IN PASTE Opaque Yellow: 1.8 ml

#2553-EU ED PRIMER II, Liquid A: 4 ml  
#2554-EU ED PRIMER II, Liquid B: 4 ml

#2552-EU Mixing tip: 20 tips



### Bibliography

- Raquel Castillo de Oyague, Francesca Monticelli, Manuel Toledano, Estrella Osorio, Marco Ferrari, Raquel Osorio: Influence of surface treatments and resin cement selection on bonding to densely-sintered zirconium-oxide ceramic. Dental Materials 25 (2009) 172–179.
- U. Lohbauer, E. Mocker, A. Petschelt, and F.A. Mueller: In Situ Curing Efficiency of Luting Resins under Ceramic Restorations. IADR, 2009 in Miami Abstract #1633.

Please read carefully the relevant instructions for use before utilizing the products.

## Cementation of crowns, bridges, inlays and onlays made of ceramic, hybrid ceramics, composite resin or metal.

As necessary, sandblast (alumina) a restoration surface at an air pressure of 0.1-0.2MPa, clean in an ultrasonic unit for 2 minutes.



For the metal restoration, sandblast at an air pressure of 0.3-0.4MPa, clean in the ultrasonic unit for 2 min., without executing step 2 and 3, apply ALLOY PRIMER and go to step 4.



Apply K-ETCHANT GEL to the adherent surface, leave for 5 sec., wash and dry.



Apply CLEARFIL™ CERAMIC PRIMER to the adherent surface, dry sufficiently using mild oil-free air flow.



Apply K-ETCHANT GEL to the adherent surface, leave for 5 sec., wash and dry.



Apply the mixed primer to the enamel surface and leave for 30 seconds.



Wipe away the excess mixed primer, dry sufficiently using mild oil-free air flow with aspirating.



Squeeze PASTE A&B from the dispenser syringe, apply to the adherent surface carefully.



Mix equal amounts of ED PRIMER II liquid A&B.



Apply the mixed primer to the abutment surface and leave for 30 seconds.



Wipe away the excess mixed primer, dry sufficiently using mild oil-free air flow with aspirating.



Squeeze PASTE A&B from the dispenser syringe, apply to the adherent surface carefully.



Mix equal amounts of ED PRIMER II liquid A&B.

Cement the restoration to the abutment and remove the excess mixed paste.



Light-cure the margins and finish.

## Cementation of veneers

Remove temporary sealing material or temporary cementation material from the adherent surface in the usual manner.

As necessary, sandblast (alumina) the adherent surface of veneer with care to prevent the edges from chipping, clean in an ultrasonic unit for 2 minutes.



Apply K-ETCHANT GEL to the adherent surface, leave for 5 sec., wash and dry.



Apply CLEARFIL™ CERAMIC PRIMER to the adherent surface, dry sufficiently using mild oil-free air flow.



Apply K-ETCHANT GEL to the enamel surface, leave for 10 sec., wash and dry.



Mix equal amounts of ED PRIMER II liquid A&B.



Apply the mixed primer to the enamel surface and leave for 30 seconds.

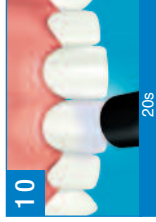


Wipe away the excess mixed primer, dry sufficiently using mild oil-free air flow with aspirating.



Squeeze PASTE A&B from the dispenser syringe, apply to the adherent surface carefully.

Light-cure the margins and finish.



\*Adjust the operating light to prevent the paste from being exposed to strong light.  
\*Must be applied to one veneer at a time.

## PANAVIA™ F 2.0 Since 2003



PANAVIA™ F 2.0 Kit (color selection)  
(quantity for about 90 applications)

### **i** Facts

- Reliable universal adhesive resin cement
- Anaerobic and dual-curing adhesive resin cement
- Cement system with a self-etching primer “ED PRIMER II” for the adhesion to tooth structure
- ALLOY PRIMER contained in the kit provides ideal adhesion to precious metal
- Work without time pressure thanks to definable curing time (anaerobic or light-curing)
- Fluoride releasing, but maintaining high mechanical strength due to the special surface coating technology of sodium fluoride

### **+** Indications

- Cementation of metal crowns and bridges, inlays and onlays
- Cementation of porcelain crowns, inlays, onlays and veneers
- Cementation of composite resin crowns, inlays and onlays
- Cementation of adhesion bridges
- Cementation of endodontic cores and prefabricated posts
- Amalgam bonding

### **+** Description

PANAVIA™ F 2.0 is a universal resin cement which shows high bond strength to tooth structures, metals and ceramics. PANAVIA™ F 2.0 has been regarded as a guarantee for permanent adhesive technique in the

areas of all-ceramics and metal restorations, especially for high-quality and difficult restorations. It is recommended by leading universities as a premium product. The self-etching cement system prevents post-operative sensitivities and provides consistently good results. The anaerobic curing properties which do not begin until direct contact has been made with the restoration (no more contact with oxygen) and the flexible consistency make PANAVIA™ F 2.0 a popular aid in daily practice. Even after releasing fluoride, the cement maintains its high mechanical strength due to the special surface coating technology of sodium fluoride.

### **+** Product range PANAVIA™ F 2.0

#### Complete Kit

- #501-EU TC
- #504-EU Light

#### Content

- 1 PANAVIA™ F 2.0 A Paste: 5.0 g (2.3 ml)
- 1 PANAVIA™ F 2.0 B Paste: 4.6 g (2.3 ml)
- 1 ED PRIMER II Liquid A: 4 ml
- 1 ED PRIMER II Liquid B: 4 ml
- 1 CLEARFIL™ CERAMIC PRIMER (2 ml)
- 1 ALLOY PRIMER: 1 ml
- 1 PANAVIA™ F 2.0 OXYGUARD™ II: 6 ml
- Accessories: 1 mixing plate, 1 spatula, 1 mixing dish, 1 small brush tip holder, 200 disposable brush tips, 20 disposable nozzles, 1 light blocking plate

#### Kit

- #485-EU TC
- #486-EU White
- #487-EU Opaque
- #488-EU Light

#### Content

- 1 PANAVIA™ F 2.0 A Paste: 5.0 g (2.3 ml)
- 1 PANAVIA™ F 2.0 B Paste: 4.6 g (2.3 ml)
- 1 ED PRIMER II Liquid A: 4 ml
- 1 ED PRIMER II Liquid B: 4 ml
- 1 ALLOY PRIMER: 1 ml
- 1 PANAVIA™ F 2.0 OXYGUARD™ II: 6 ml
- Accessories: see „Complete Kit“

## Introductory Kit

- #480-EU TC
- #481-EU White
- #482-EU Opaque
- #483-EU Light

### Content

- 1 PANAVIA™ F 2.0 A Paste: 2.1 g (1 ml)
- 1 PANAVIA™ F 2.0 B Paste: 1.9 g (1 ml)
- 1 ED PRIMER II Liquid A: 1 ml
- 1 ED PRIMER II Liquid B: 1 ml
- 1 PANAVIA™ F 2.0 OXYGUARD™ II: 1.5 ml
- + accessories

### Refill

- #493-EU PANAVIA™ F 2.0 A Paste: 5.0 g (2.3 ml)
- #497-EU PANAVIA™ F 2.0 B Paste (Light): 4.6 g (2.3 ml)
- #496-EU PANAVIA™ F 2.0 B Paste (Opaque): 4.6 g (2.3 ml)
- #494-EU PANAVIA™ F 2.0 B Paste (TC): 4.6 g (2.3 ml)
- #495-EU PANAVIA™ F 2.0 B Paste (White): 4.6 g (2.3 ml)
- #491-EU ED PRIMER II Liquid A: 4 ml
- #492-EU ED PRIMER II Liquid B: 4 ml
- #490-EU OXYGUARD™ II: 6 ml
- #917-EU OXYGUARD™ II: Disposable nozzle: 20 pcs.



## Available in four color shades:

- Light (translucent)  
Transparent, ideal for veneers, restorations made of metal oxide ceramics.
- TC (tooth colors)  
Color support for the natural tooth.
- White  
But not opaque. Affects dark tooth and tooth discolorations optimally and naturally.
- Opaque  
Covers the underlying surface completely. Especially suitable for precious/non-precious alloys and adhesion/Maryland bridges.



## Product recommendations



### Pretreatment of the metal surface

When a restoration made of precious or non-precious metal alloys is used, the inner surface should first be sandblasted or roughened to optimize the adhesion properties and pretreated with ALLOY PRIMER.

#064-EU ALLOY PRIMER: 5 ml



### Pretreatment of the ceramic surface

When a restoration of ceramic or composite resin is used, it should first be silanized with CLEARFIL™ CERAMIC PRIMER to optimize the adhesion properties.

#2550-EU CLEARFIL™ CERAMIC PRIMER: 4 ml



### Core build-up

The new glass fiber post PANAVIA™ POST features a high mechanical durability and an optimal elastic modulus for long-lasting, reliable restorations.

#1190-EU Introductory Kit

### Content

2 pcs. each of sizes no. 3, 4, 5 and 6



## Bibliography

- Bouillaguet, S., Troesch, S., Wataha, J. C., Krejci, I., Meyer, J. M., Pashley, D. H.: Microtensile bond strength between adhesive cements and root canal dentin. Dent-Mater. 2003 May; 19(3): 199-205.
- Qualtrough, A. J., Chandler, N. P., Purton, D. G.: A comparison of the retention of tooth-colored posts. Quintessence-Int. 2003 Mar; 34(3): 199-201.
- Ari, H., Yasar, E., Belli, S.: Effects of NaOCl on bond strengths of resin cements to root canal dentin. J-Endod. 2003 Apr; 29(4): 248-51.
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- Foxton, R. M., Pereira, P. N., Masatoshi, N., Tagami, J., Miura, H.: Long-term durability of the dual-cure resin cement/silicon oxide ceramic bond. J-Adhes-Dent. 2002 Summer; 4(2): 125-35.

Please read carefully the relevant instructions for use before utilizing the products.

## Cementation of cores or prefabricated posts

Treatment of post surface.



To use CLEARFIL™ CERAMIC PRIMER, refer to the instructions for use.

Apply to the tooth. Then, wait 30 sec.



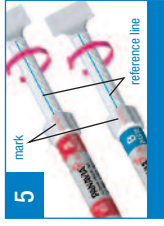
Genite air dry. Remove excess primer with paper points.



Mix equal amounts of ED PRIMER II A&B. ED PRIMER II initiates set of cement. \*The mixture must be used within 5 min. after mixing.



Dispense equal amounts of paste A&B.



Mix paste A&B and coat posts with mixed cement.



Seat posts and apply excess cement to coronal tooth structure.



Place build-up composite directly on PANAVIA™ F 2.0, light- or self-cure.



## Cementation of porcelain veneers

Hydrofluoric acid etch the veneer. If veneer is pre-etched by laboratory go to step 2.



Apply K-ETCHANT GEL (40% phosphoric acid) to clean surface for 5 sec.



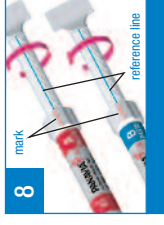
Apply CLEARFIL™ CERAMIC PRIMER to the adherent surface, dry sufficiently using mild oil-free air flow.



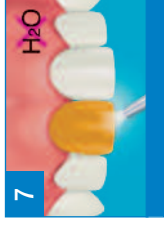
Apply K-ETCHANT GEL (40% phosphoric acid) to the enamel surface for 10 sec. Rinse and gently air dry.



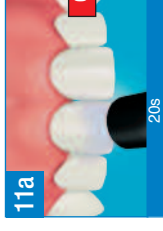
Dispense equal amounts of paste A&B. Mix for 20 sec. minimum.



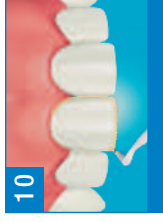
Gently air dry.



Light-cure the margins. 20sec. per surface (Conventional halogen or LED light) 5sec. per surface (Plasma arc or fast halogen light).



Remove excess cement. (For easy clean-up, partially light-cure the excess cement for 2-3 sec. with conventional halogen or LED light, then remove the excess.)



Self-cure material by applying OXYGUARD™ II to the margins. Then, wait 3 min.



Please read carefully the relevant instructions for use before utilizing the products.

## Cementation of precious & semi-precious metal crowns, PFM crowns, bridges, inlays and onlays

Sandblast, wash & dry.



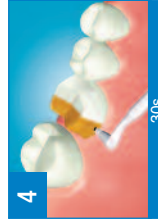
Apply ALLOY PRIMER to internal surface of precious metal restoration.



Mix equal amounts of ED PRIMER II A&B. ED PRIMER II initiates set of cement.



Apply to the tooth. Then, wait 30 sec.



Sandblasting.



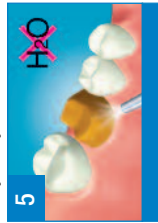
Apply K-ETCHANT GEL (40% phosphoric acid) to clean surface for 5 sec. Rinse and dry. (For cementation of zirconia or alumina restorations step 2 and 3 are not required.)



Mix equal amounts of ED PRIMER II A&B. ED PRIMER II initiates set of cement.



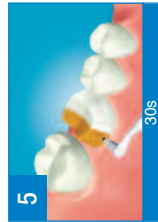
Gently air dry.



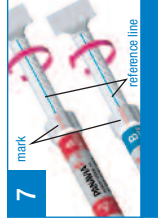
Apply mixture of the paste.



Apply to the tooth. Then, wait 30 sec.



Dispense equal amounts of paste A&B. Mix paste A&B for 20 sec. minimum.



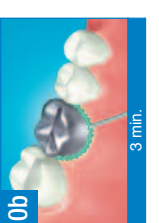
Mix paste A&B for 20 sec. minimum.



Remove excess cement. (For easy clean up, partially light-cure the excess cement for 2-3 sec. with conventional halogen or LED light, then remove the excess.)



Self-cure material by applying OXYGUARD™ II to the margins. Then, wait 3 min.



Light-cure the margins. 20sec. per surface (Conventional halogen or LED light). 3sec. per surface (Plasma arc or fast halogen light).



Remove excess cement. (For easy clean-up, partially light-cure the excess cement for 2-3 sec. with conventional halogen or LED light, then remove the excess.)



Light-cure the margins. 20sec. per surface (Conventional halogen or LED light). 3sec. per surface (Plasma arc or fast halogen light).





## PANAVIA™ 21



### Description

PANAVIA™ 21 is an anaerobic-curing adhesive resin cement which cures only when oxygen is excluded, i.e., when there is direct contact between two surfaces. This provides for optimal working time because the pastes cannot cure before the restoration has been inserted.

PANAVIA™ 21 develops the greatest bond strengths between tooth structure and restorations. Its use in combination with the self-etching ED PRIMER guarantees an effective and gentle preparation of enamel and dentin in one work step. Etching with acidic agents and the following rinsing become unnecessary which is why concerns about post-operative sensitivities are now a thing of the past. The enclosed etching gel is to be used to uncut enamel.

Because of the high bond strength paste-paste formula, PANAVIA™ 21 offers a consistent mixture with practical processing and curing times. The practical dispenser simplifies mixing in the correct ratio. PANAVIA™ 21 is suitable for a broad range of indications and is available in the three color shades EX (white), TC (tooth color) and OP (opaque).

### Facts

- Anaerobic-curing, i.e., in the absence of oxygen between contact surfaces
- High bond strength to enamel, dentin, metal, metal alloys, ceramics and composite resin restorations
- Reliable cement system with a self-etching "ED PRIMER" for tooth structure
- With user-friendly dispenser

### Indications

- Cementation of "adhesion" bridges or splints
- Cementation of metal inlays, onlays, crowns or bridges
- Cementation of porcelain or composite inlays, onlays or crowns
- Cementation of root canal posts or cast metal cores
- Bonded amalgam restorations



## Product range PANAVIA™ 21

- #450-EU **EX Kit** (White)
- #460-EU **TC Kit** (Tooth colors)
- #470-EU **OP Kit** (Opaque)

### Content

- 1 Catalyst: 7.9 g (4 ml)
- 1 Universal: 7.6 g (4 ml)
- 1 ED PRIMER Liquid A: 4 ml
- 1 ED PRIMER Liquid B: 4 ml
- 1 OXYGUARD™ II: 6 ml
- 1 PANAVIA™ Etching Agent V: 5 ml
- 1 paste dispenser, 1 mixing plate,
- 1 spatula, 1 mixing dish, 1 sponge pledget,
- 2 brush holders, 2 x 50 disposable brush tips

### Refill

- #455-EU EX Catalyst paste: 7.9 g (4 ml) & Universal paste: 7.6 g (4 ml)
- #465-EU TC Catalyst paste: 7.9 g (4 ml) & Universal paste: 7.6 g (4 ml)
- #475-EU OP Catalyst paste: 7.9 g (4 ml) & Universal paste: 7.6 g (4 ml)
- #1053-EU ED PRIMER Liquid A: 4 ml
- #1054-EU ED PRIMER Liquid B: 4 ml
- #490-EU OXYGUARD™ II: 6 ml
- #006-EU PANAVIA™ Etching Agent V: 5 ml



## Product recommendations



### Preparation of the metal surface

When a restoration of precious or non-precious alloys is used, they should first be sandblasted or roughened to optimize the adhesion properties and pretreated for 5 seconds with ALLOY PRIMER.

- #064-EU ALLOY PRIMER: 5 ml



### Pretreatment of the ceramic surface

When a restoration made of ceramic or composite is used, it should first be silanized to optimize the adhesion properties. To create a silane, place one drop each of CLEARFIL™ SE BOND Primer and CLEARFIL™ PORCELAIN BOND ACTIVATOR together in a depression of the mixing dish. Apply to the adherent surface for 5 seconds and dry with mild air stream.



- #1982-EU CLEARFIL™ SE BOND PRIMER: 6 ml
- #061-EU CLEARFIL™ PORCELAIN BOND ACTIVATOR: 4 ml



You can also use the new CLEARFIL™ CERAMIC PRIMER

- #2550-EU CLEARFIL™ CERAMIC PRIMER: 4 ml



### PANAVIA™

PANAVIA™, the first anaerobic-curing resin cement.

- #401-EU PANAVIA™ EX: Powder (11 g) & Liquid (4.5 ml)
- #408-EU PANAVIA™ EX Intro Kit: Powder (4 g) & Liquid (1.5 ml)
- #030-EU OXYGUARD™ (6 ml)



## Bibliography

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# Restorative composites

## Overview

	Class I	Class II	Class III	Class IV	Class V
<b>CLEARFIL MAJESTY™ ES-2</b> 	 ✓	 ✓	 ✓	 ✓	 ✓
<b>CLEARFIL MAJESTY™ Esthetic</b> 	✓	✓	✓	✓	✓
<b>CLEARFIL MAJESTY™ Posterior</b> 	✓	✓	(✓)	(✓)	(✓)
<b>CLEARFIL MAJESTY™ Flow</b> 	✓	✓	✓		✓
<b>CLEARFIL™ AP-X</b> 	✓	✓	✓	✓	✓
<b>CLEARFIL™ PHOTO BRIGHT</b> 			✓	✓	✓
<b>CLEARFIL™ FII</b> 			✓	✓	✓
<b>CLEARFIL™ PHOTO POSTERIOR</b> 	✓	✓			
<b>CLEARFIL™ POSTERIOR 3</b> 	✓	✓			
<b>CLEARFIL™ ST OPAQUER</b> 			✓	✓	

Light-curing	Self-curing	Radiopaque	Contains color shades	Page number
✓		✓	Classic shades: 18 Premium shades: 18	36
✓		✓	Standard shades: 9, Complementary shades: 8	38
✓		✓	6	40
✓		✓	9	42
✓		✓	14	44
✓			18	46
	✓		1	47
✓		✓	6	48
	✓	✓	1	49
✓			2	50

( ): possible

## CLEARFIL MAJESTY™ ES-2

NEW



**CLEARFIL MAJESTY™ ES-2 Syringe Professional Kit**  
16 syringes and 1 x Shade Guide

Classic and Premium Shades: 1 syringe per shade (3.6 g/2.0 ml),  
Translucent Shades: 1 syringe per shade (1.8 g/0.9 ml)

NEW



**CLEARFIL MAJESTY™ ES-2 PLT Professional Kit**  
16 PLTs and 1 x Shade Guide

Classic, Premium and Translucent Shades:  
5 tips per shade (0.25 g)



### Facts

- New brightness approved bei VITA™
- Marvelous color blending effect
- Wide range of shades, including four different transparency shades
- Intuitive shade choice and layering method



### Indications

- Direct restorations for all cavity classes in anterior and posterior teeth
- Direct veneers
- Correction of tooth position and tooth shape (e.g. diastema closure, dwarfed tooth, etc.)
- Intraoral repairs of fractured restorations.



### Description

Using composite resins for an esthetic restoration poses many challenges. One of these is easily detecting filled parts and margin lines between the composite resin and the natural tooth.

CLEARFIL MAJESTY™ ES-2 is designed to solve these esthetic issues in daily work. Thanks to the new brightness based shade-taking method, outstanding esthetic restorations can be achieved. A wide range of shades – including four different transparency shades – and an easy-to-choose shade and layering method constitute a highly remarkable innovation.

CLEARFIL MAJESTY™ ES-2 consists of **Classic** shades for the single-shade technique and **Premium** shades for the the dual-shade technique. The two systems can cover almost any restorative case in daily practice.

Kuraray believes that the brightness is the most important aspect in order to match a composite restoration with the natural teeth. With CLEARFIL MAJESTY™ ES-2 Kuraray has adopted the brightness based shade-taking method and the new Shade Guide for more precise shade choice.



## Product Range: CLEARFIL MAJESTY™ ES-2

### Kit



**#3010-EU Syringe Professional Kit**  
Classic A1, A2, A3, A3.5, Premium A1E, A2E, A3E, A3.5E, A1D, A2D, A3D, A3.5D:  
1 syringe per shade (3.6 g/2.0 ml) +  
Clear, Amber, Blue, Gray:  
1 syringe per shade (1.8 g/0.9 ml) +  
Shade Guide



**#3100-EU PLT Professional Kit**  
Classic A1, A2, A3, A3.5, Premium A1E, A2E, A3E, A3.5E, A1D, A2D, A3D, A3.5D,  
Clear, Amber, Blue, Gray:  
5 tips per shade (0.25 g) + Shade Guide

**#3012-EU Syringe Introductory Kit**  
Classic A2, Premium A2D, A2E:  
1 syringe per shade (1.2 g/0.7 ml)

**#3102-EU PLT Introductory Kit**  
Classic A2, Premium A2E, A2D:  
5 tips per shade (0.25 g)



### Shade Guide



**#3000-EU Shade guide**  
All shades

**#3001-EU Shade guide compact**  
A1, A2, A3, A3.5, A4, B1, B2, B3, B4,  
C1, C2, C3, C4, D2, D3, XW, W



### Product recommendations



**#2890-EU**  
CLEARFIL™  
S<sup>3</sup> BOND PLUS Set



**#1970-EU**  
CLEARFIL™  
SE BOND Kit



**#1910-EU**  
CLEARFIL™  
PROTECT BOND Kit



## Syringe Refill Classic

#3020-EU A1 (3.6 g/2.0 ml)  
#3021-EU A2 (3.6 g/2.0 ml)  
#3022-EU A3 (3.6 g/2.0 ml)  
#3023-EU A3.5 (3.6 g/2.0 ml)  
#3024-EU A4 (3.6 g/2.0 ml)  
#3025-EU KA6 (3.6 g/2.0 ml)  
#3026-EU B1 (3.6 g/2.0 ml)  
#3027-EU B2 (3.6 g/2.0 ml)  
#3028-EU B3 (3.6 g/2.0 ml)  
#3029-EU B4 (3.6 g/2.0 ml)  
#3030-EU C1 (3.6 g/2.0 ml)  
#3031-EU C2 (3.6 g/2.0 ml)  
#3032-EU C3 (3.6 g/2.0 ml)  
#3033-EU C4 (3.6 g/2.0 ml)  
#3034-EU D2 (3.6 g/2.0 ml)  
#3035-EU D3 (3.6 g/2.0 ml)  
#3036-EU XW (3.6 g/2.0 ml)  
#3037-EU W (3.6 g/2.0 ml)

## Premium

#3050-EU A1E (3.6 g/2.0 ml)  
#3051-EU A2E (3.6 g/2.0 ml)  
#3052-EU A3E (3.6 g/2.0 ml)  
#3053-EU A3.5E (3.6 g/2.0 ml)  
#3054-EU A4E (3.6 g/2.0 ml)  
#3055-EU XWE (3.6 g/2.0 ml)  
#3056-EU WE (3.6 g/2.0 ml)  
#3057-EU A1D (3.6 g/2.0 ml)  
#3058-EU A2D (3.6 g/2.0 ml)  
#3059-EU A3D (3.6 g/2.0 ml)  
#3060-EU A3.5D (3.6 g/2.0 ml)  
#3061-EU A4D (3.6 g/2.0 ml)  
#3062-EU XWD (3.6 g/2.0 ml)  
#3063-EU WD (3.6 g/2.0 ml)  
#3064-EU Clear (1.8 g/0.9 ml)  
#3065-EU Amber (1.8 g/0.9 ml)  
#3066-EU Blue (1.8 g/0.9 ml)  
#3067-EU Gray (1.8 g/0.9 ml)



## PLT Refill Classic

#3110-EU A1 (20 tips x 0.25 g)  
#3111-EU A2 (20 tips x 0.25 g)  
#3112-EU A3 (20 tips x 0.25 g)  
#3113-EU A3.5 (20 tips x 0.25 g)  
#3114-EU A4 (20 tips x 0.25 g)  
#3115-EU KA6 (20 tips x 0.25 g)  
#3116-EU B1 (20 tips x 0.25 g)  
#3117-EU B2 (20 tips x 0.25 g)  
#3118-EU B3 (20 tips x 0.25 g)  
#3119-EU B4 (20 tips x 0.25 g)  
#3120-EU C1 (20 tips x 0.25 g)  
#3121-EU C2 (20 tips x 0.25 g)  
#3122-EU C3 (20 tips x 0.25 g)  
#3123-EU C4 (20 tips x 0.25 g)  
#3124-EU D2 (20 tips x 0.25 g)  
#3125-EU D3 (20 tips x 0.25 g)  
#3126-EU XW (20 tips x 0.25 g)  
#3127-EU W (20 tips x 0.25 g)

## Premium

#3140-EU A1E (10 tips x 0.25 g)  
#3141-EU A2E (10 tips x 0.25 g)  
#3142-EU A3E (10 tips x 0.25 g)  
#3143-EU A3.5E (10 tips x 0.25 g)  
#3144-EU A4E (10 tips x 0.25 g)  
#3145-EU XWE (10 tips x 0.25 g)  
#3146-EU WE (10 tips x 0.25 g)  
#3147-EU A1D (10 tips x 0.25 g)  
#3148-EU A2D (10 tips x 0.25 g)  
#3149-EU A3D (10 tips x 0.25 g)  
#3150-EU A3.5D (10 tips x 0.25 g)  
#3151-EU A4D (10 tips x 0.25 g)  
#3152-EU XWD (10 tips x 0.25 g)  
#3153-EU WD (10 tips x 0.25 g)  
#3154-EU Clear (10 tips x 0.25 g)  
#3155-EU Amber (10 tips x 0.25 g)  
#3156-EU Blue (10 tips x 0.25 g)  
#3157-EU Gray (10 tips x 0.25 g)

## CLEARFIL MAJESTY™ Esthetic



**CLEARFIL MAJESTY™ Esthetic**  
(color selection) 1 syringe: 3.6 g/2.0 ml

2012 REALITY Four Star Award

THE DENTAL ADVISOR 2012 PREFERRED PRODUCTS

2012 Top Composite-Esthetic

2012 Top Long-term Performer-Composites



**CLEARFIL MAJESTY™ Esthetic PLT**  
(color selection) 20 PLTs (0.26 g/0.15 ml each)

2012 REALITY Four Star Award

THE DENTAL ADVISOR 2012 PREFERRED PRODUCTS

2012 Top Composite-Esthetic

2012 Top Long-term Performer-Composites

### Facts

- Excellent color matching with only 1 shade per restoration, especially for anterior restorations
- Versatile shade selection
- Light diffusion property similar to natural teeth
- Low polymerization shrinkage
- Easy handling consistency, not sticky
- High polishability

### Indications

- Direct restorations for anterior and posterior teeth (Class I – V cavities)
- Direct veneers
- Correction of tooth position and tooth shape (e.g. diastema closure, dwarfed tooth, etc.)
- Intraoral repairs of fractured crowns/bridges

### Description

CLEARFIL MAJESTY™ Esthetic is a light-curing, radiopaque composite resin, especially for anterior restorations. It contains a new organic filler which has high transparency and excellent light diffusion, a new fine filler with high radiopacity and polishability, and a high refractive index matrix (filler contents: 78 wt%, 66 vol%). CLEARFIL MAJESTY™ Esthetic exhibits a light diffusion property similar to natural tooth structure which makes it possible to use only one single matching shade per restoration.

CLEARFIL MAJESTY™ Esthetic provides an outstanding and versatile shade matching for almost any restorative situation. The high refractive matrix also provides another essential benefit, a very minor transparency shift after light-curing. CLEARFIL MAJESTY™ Esthetic also has an easy handling consistency, with high polishability and low polymerization shrinkage (1.9 vol%), and is very easy to handle.



**Product range**  
**CLEARFIL MAJESTY™ Esthetic (syringes)**

**Standard shades (syringes)**

#2160-EU A1	(3.6 g/2.0 ml)
#2161-EU A2	(3.6 g/2.0 ml)
#2162-EU A3	(3.6 g/2.0 ml)
#2163-EU A3.5	(3.6 g/2.0 ml)
#2164-EU A4	(3.6 g/2.0 ml)
#2166-EU B2	(3.6 g/2.0 ml)
#2167-EU B3	(3.6 g/2.0 ml)
#2170-EU C3	(3.6 g/2.0 ml)
#2182-EU HO (Hollywood Opaque)	(3.6 g/2.0 ml)



**Complementary shades (syringes)**

#2173-EU E (Enamel)	(3.6 g/2.0 ml)
#2174-EU XL (Extra Light)	(3.6 g/2.0 ml)
#2175-EU OC (Occlusal)	(3.6 g/2.0 ml)
#2177-EU OA2	(3.6 g/2.0 ml)
#2178-EU OA3	(3.6 g/2.0 ml)
#2179-EU OA4	(3.6 g/2.0 ml)
#2172-EU T (Transparent)	(3.7 g/2.0 ml)
#2185-EU AM (Amber)	(3.7 g/2.0 ml)

#2152-EU CLEARFIL MAJESTY™ Esthetic shade guide



**Product range**  
**CLEARFIL MAJESTY™ Esthetic (PLTs)**

**Standard shades (PLTs)**

#2660-EU A1	(20 x 0.26 g/0.15 ml)
#2661-EU A2	(20 x 0.26 g/0.15 ml)
#2662-EU A3	(20 x 0.26 g/0.15 ml)
#2663-EU A3.5	(20 x 0.26 g/0.15 ml)
#2664-EU A4	(20 x 0.26 g/0.15 ml)
#2666-EU B2	(20 x 0.26 g/0.15 ml)
#2667-EU B3	(20 x 0.26 g/0.15 ml)
#2670-EU C3	(20 x 0.26 g/0.15 ml)
#2682-EU HO (Hollywood Opaque)	(20 x 0.26 g/0.15 ml)



**Complementary shades (PLTs)**

#2673-EU E (Enamel)	(20 x 0.26 g/0.15 ml)
#2674-EU XL (Extra Light)	(20 x 0.26 g/0.15 ml)
#2675-EU OC (Occlusal)	(20 x 0.26 g/0.15 ml)
#2677-EU OA2	(20 x 0.26 g/0.15 ml)
#2678-EU OA3	(20 x 0.26 g/0.15 ml)
#2679-EU OA4	(20 x 0.26 g/0.15 ml)
#2672-EU T (Transparent)	(20 x 0.26 g/0.15 ml)
#2685-EU AM (Amber)	(20 x 0.26 g/0.15 ml)



**Product recommendations**



#2890-EU  
CLEARFIL™  
S<sup>3</sup> BOND PLUS Set



#1970-EU  
CLEARFIL™  
SE BOND Kit



#1910-EU  
CLEARFIL™  
PROTECT BOND Kit



## CLEARFIL MAJESTY™ Posterior



CLEARFIL MAJESTY™ Posterior (color selection)  
1 syringe: 4.9 g/2.0 ml



CLEARFIL MAJESTY™ Posterior PLT (color selection)  
20 PLTs (0.25 g/0.1 ml each)

### Facts

- Highest filler loading (92 wt%, 82 vol%)
- High surface hardness, close to human enamel (high wear resistance), but friendly against an antagonist tooth
- High physical properties (mechanical strength, durability) and high curing depth
- Low polymerization shrinkage and low thermal expansion
- Better marginal adaptation even for a long time period
- Easy handling
- Versatile, simple, accurate shade selection for posterior restorations

### Indications

- Direct restorations for anterior and posterior teeth (Class I – V cavities)
- Correction of tooth position and tooth shape (e.g. diastema closure, dwarfed tooth, etc.)
- Intraoral repairs of fractured crowns/bridges

### Description

CLEARFIL MAJESTY™ Posterior is a light-curing, nano-superfilled, radiopaque restorative posterior composite resin composed of a nano and micro inorganic filler treated with a proprietary new surface coating technology. The new surface technology permits a larger quantity of nanofiller to be dispersed in the resin matrix, a matrix which consists of monomer and microfiller. The resulting resin matrix is reinforced with a filler loading of 92 wt% (82 vol%). CLEARFIL MAJESTY™ Posterior has an improved high surface hardness close to that of human enamel (high wear resistance, but friendly against an antagonist tooth), high mechanical strength (compressive strength: 504 MPa, flexural strength: 177 MPa), high durability, high curing depth, low polymerization shrinkage (1.5 vol%) and a low thermal expansion coefficient. These features assure a reliable posterior restoration with better marginal adaptation and a restoration that will last. In spite of the extremely high filler loading, CLEARFIL MAJESTY™ Posterior also has an easy shapable consistency and the high refractive matrix also provides another essential benefit, a very minor transparency shift after light-curing.



**Product range**  
**CLEARFIL MAJESTY™ Posterior (syringes)**

- #2581-EU A2 (4.9 g/2.0 ml)
- #2582-EU A3 (4.9 g/2.0 ml)
- #2583-EU A3.5 (4.9 g/2.0 ml)
- #2586-EU B2 (4.9 g/2.0 ml)
- #2590-EU XL (Extra Light) (4.9 g/2.0 ml)
- #2597-EU OA3 (4.9 g/2.0 ml)



**Product range**  
**CLEARFIL MAJESTY™ Posterior (PLTs)**

- #2692-EU A2 (20 x 0.25 g/0.1 ml)
- #2693-EU A3 (20 x 0.25 g/0.1 ml)
- #2694-EU A3.5 (20 x 0.25 g/0.1 ml)
- #2695-EU B2 (20 x 0.25 g/0.1 ml)
- #2697-EU XL (20 x 0.25 g/0.1 ml)
- #2704-EU OA3 (20 x 0.25 g/0.1 ml)

#2572-EU CLEARFIL MAJESTY™ Posterior shade guide



**Product recommendations**



#2890-EU CLEARFIL™ S<sup>3</sup> BOND PLUS Set



#1970-EU CLEARFIL™ SE BOND Kit



#1910-EU CLEARFIL™ PROTECT BOND Kit



**Bibliography**

- W. Dasch, U. Lohbauer and A. Petschelt: Volumetric Polymerization Shrinkage Characteristics of Resin Materials for Different Indications. IADR, 2006 Abstract #2464.

## CLEARFIL MAJESTY™ Flow



CLEARFIL MAJESTY™ Flow (color selection)  
1 syringe: 3.2 g/1.5 ml



### Description

CLEARFIL MAJESTY™ Flow is a flowable, superfilled, light-curing, radiopaque restorative composite resin with the filler particles treated with a proprietary new surface coating technology. The resulting resin matrix is reinforced with a high filler loading of 81 wt%, a loading similar to many universal composite resins. In addition to the high filler loading, CLEARFIL MAJESTY™ Flow has a low viscosity for good handling and easy placement. CLEARFIL MAJESTY™ Flow exhibits high mechanical properties (compressive strength: 329 MPa, flexural strength: 145 MPa), high wear resistance, high radiopacity (290 %AI) and very low polymerization shrinkage. These features make it a very versatile product with multiple uses including as a universal composite resin (e.g. Class I, II).

CLEARFIL MAJESTY™ Flow has an excellent consistency (appropriate flowability, and is not runny or sticky). Equally significant is the new CLEARFIL MAJESTY™ Flow dispenser, a new syringe that provides nearly bubble free and controllable dispensing as well as dramatically easy handling.



### Facts

- High filler loading (81 wt%, 62 vol%) and low viscosity
- Low shrinkage and high physical properties (mechanical strength, wear resistance, durability)
- Multiple uses - including as a universal composite resin
- Excellent consistency (appropriate flowability, that is not runny or sticky)
- Easy handling (bubble free and controllable) with the new ergonomic syringe
- Versatile shade selection for multiple uses



### Indications

- Direct restorations for anterior and posterior teeth (Class I - III, V cavities, cervical caries, root erosion)
- Cavity base / liner
- Intraoral repairs of fractured crowns/bridges/ composite resin



## Product range

### CLEARFIL MAJESTY™ Flow (syringes)

#2610-EU	A1	(3.2 g/1.5 ml)
#2611-EU	A2	(3.2 g/1.5 ml)
#2612-EU	A3	(3.2 g/1.5 ml)
#2613-EU	A3.5	(3.2 g/1.5 ml)
#2614-EU	A4	(3.2 g/1.5 ml)
#2616-EU	B2	(3.2 g/1.5 ml)
#2618-EU	C3	(3.2 g/1.5 ml)
#2621-EU	Cv (Cervical)	(3.2 g/1.5 ml)
#2632-EU	OA3	(3.2 g/1.5 ml)

#2602-EU CLEARFIL MAJESTY™ Flow shade guide



#1015-EU Needle tips: 20 tips



## Product recommendations



#2890-EU CLEARFIL™ S<sup>3</sup> BOND PLUS Set



#1970-EU CLEARFIL™ SE BOND Kit



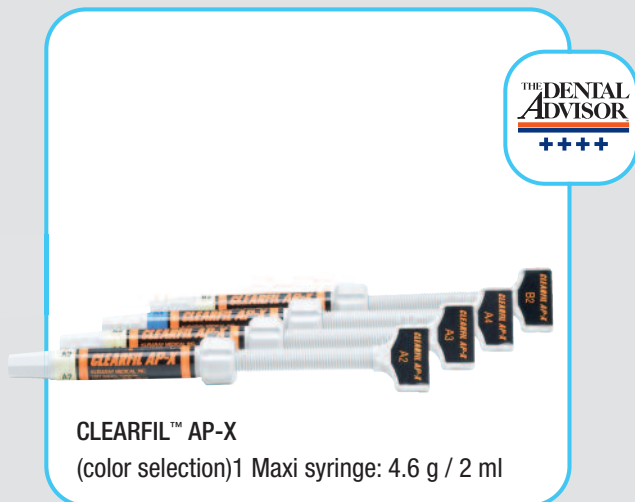
#1910-EU CLEARFIL™  
PROTECT BOND Kit



## Bibliography

- T. Takada, J. Sugizaki, M. Morigami, S. Uno and T. Yamada: Development of a New Flowable Composite Clearfil Majesty Flow. IADR, 2007 Abstract #2690, New Orleans.

## CLEARFIL™ AP-X



**CLEARFIL™ AP-X**  
(color selection) 1 Maxi syringe: 4.6 g / 2 ml



**CLEARFIL™ AP-X PLT**  
(color selection) 20 PLTs (0.2 g each)  
10 PLTs (0.2 g each) for colors A4 and H0



### Facts

- Superior physical properties
- High resistance and long-lastingness
- High polishability
- Accurate color matching
- Radiopaque
- Easy handling
- Does not stick to instruments
- Available in syringes and PLTs
- Clinically proven since 1993



### Description

CLEARFIL™ AP-X is a light-curing, radiopaque universal composite resin which combines accurate color matching, best polishing qualities, and outstanding physical features. Thanks to these properties, it is suitable for both anterior and posterior tooth restorations. Its composition ensures optimum viscosity so that it can easily be polished and layering is simple.



### Indications

- Class I, II, V restorations of posterior teeth
- Class III, IV, V restorations of anterior teeth
- Cervical cavities or defects involving root surfaces



### Color shades available in maxi-syringes à 4.6 g (2 ml)

- #1721-EU A2
- #1722-EU A3
- #1723-EU A3.5
- #1724-EU A4
- #1725-EU B2
- #1726-EU B3
- #1727-EU B4
- #1732-EU C1
- #1728-EU C2
- #1729-EU C3
- #1730-EU C4
- #1733-EU CL
- #1734-EU HO
- #1731-EU XL



### Color shades available in PLTs (0.2 g)

- |          |      |         |
|----------|------|---------|
| #1721-E2 | A2   | 20 tips |
| #1722-E2 | A3   | 20 tips |
| #1723-E2 | A3.5 | 20 tips |
| #1724-E2 | A4   | 10 tips |
| #1725-E2 | B2   | 20 tips |
| #1726-E2 | B3   | 20 tips |
| #1734-E2 | HO   | 10 tips |
| #1731-E2 | XL   | 20 tips |

#935-EU Shade guide



### 5 convincing advantages of AP-X

#### 1. High wear resistance

CLEARFIL™ AP-X is a micro-hybrid composite heavy filled with fine barium glass particles in high density by 86 wt% (70 vol%). This is one of the reasons for the unusually high wear and fracture resistance performed by CLEARFIL™ AP-X. A truly convincing value for durable posterior restorations.

#### 2. Excellent polishability

The high number of fine filler particles (smallest 0.04 µm) provides excellent polishability. As an effect, esthetic results can be achieved, perfectly suited for challenging anterior restorations.

#### 3. Low polymerization shrinkage

In addition, the high dense filler content is one of the reasons for a very low polymerization shrinkage of 1.9 % which reduces stress forces against cavity walls dramatically. As an effect, the risk of post-operative sensitivities and secondary caries due to marginal leakage is limited.

#### 4. Visible radiopacity

The absence of marginal gaps can easily be followed-up as the material offers excellent radiopacity for x-ray evaluations due to its high percentage in barium glass particles.

#### 5. Easy handling

With a special non-sticky formula, CLEARFIL™ AP-X does not stick to any instruments or contact matrix. On the one hand the material offers convenient adaptation towards additional composite layers and is therefore optimally suited for anterior restorations. On the other hand the consistency of CLEARFIL™ AP-X is more than adequate to allow precise shaping in posterior areas. Convenient PLTs improve the application process and ensure hygienic treatment.

## CLEARFIL™ PHOTO BRIGHT



### Facts

- Broad range of color shades
- Simple use
- Does not stick to instruments
- Excellent physical and mechanical properties
- Ideal for the preparation of composite veneers
- Fluorescence

### Indications

- Anterior restorations (classes III, IV)
- Class V restorations (cervical caries, root erosion, wedge-shaped defects)



### Description

CLEARFIL™ PHOTO BRIGHT is an esthetic anterior composite with proven Kuraray technology, excellent handling properties and a beautiful selection of colors. Excellent mechanical and physical properties are essential for the durability and esthetics of a restoration. The balanced filler composition and excellent bonding with the resin matrix make CLEARFIL™ PHOTO BRIGHT unique, resulting in a natural looking restoration, excellent polishability and a strong and long-lasting restoration which also preserves a long-term brilliance. The addition of fluorescence make CLEARFIL™ PHOTO BRIGHT complete.



### Product range

#### CLEARFIL™ PHOTO BRIGHT

1 syringe: 3.4 g/2.0 ml

#2858-EU B (Cv)	#2854-EU UO (OA2)
#2852-EU DG (C3)	#2842-EU US (A2)
#2851-EU DGO (OC2)	#2848-EU UY (B2.5)
#2843-EU DY (A3)	#2845-EU XL (B0.5)
#2855-EU DYO (OA3)	#2849-EU Y (B3)
#2844-EU G (A3.5)	#2850-EU YB (B4)
#2846-EU L (B1)	#2857-EU YB0 (OB4)
#2853-EU LO (OA1)	#2856-EU YO (OB3)
#2847-EU U (B2)	
#2841-EU UL (A1)	#2840-EU Shade guide



### Color Code

See Page 83 for definition.

## CLEARFIL™ FII (CLEARFIL™ FII NEW BOND)



### Facts

- High bond strength
- Optimal marginal sealing
- Smoothly polishable surface



### Indications

- Class III, IV, V restorations of anterior teeth



### Description

CLEARFIL™ FII (CLEARFIL™ FII NEW BOND) is a self-curing composite system developed especially for the construction of anterior composite restorations. CLEARFIL™ FII provides a good marginal sealing, and offers protection against micro-leakage. Excellent physical properties, a natural appearance, and good handling properties make CLEARFIL™ FII a good choice in restorative dentistry.



### Product range CLEARFIL™ FII

- #125-EU 1 catalyst paste (15 g),  
1 universal paste (15 g)



### Product recommendations



#### For more safety

The CARIES DETECTOR stains tooth hard tissue affected by caries in red, while re-mineralized dentin is not stained, providing maximum security.

#220-EU CARIES DETECTOR (6 ml)



#### Improvement of adhesive properties

We strongly recommend the use of CLEARFIL™ LINER BOND 2V. It secures an excellent sealing of the margin between the tooth hard structure and self-curing filling material.

#1921-EU CLEARFIL™ LINER BOND 2V:  
DC Kit (with Bond B)



### Bibliography

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## CLEARFIL™ PHOTO POSTERIOR



### Product range CLEARFIL™ PHOTO POSTERIOR

(available color shades)

1 syringe: 4.7 g/2 ml

#561-EU US

#562-EU UY

#563-EU UL

#564-EU G

#565-EU B

#567-EU XL



### Color Code

See Page 83 for definition.



### Facts

- High strength and durability
- High wear resistance
- Radiopaque
- Easy handling



### Indications

- Posterior restorations (classes I, II and V)



### Description

CLEARFIL™ PHOTO POSTERIOR is a light-curing radiopaque composite for restorations in the posterior area. It stands out for its excellent processing, exceptional adhesion, superior marginal sealing, and high resistance to wear. A selection of six color shades enables the construction of esthetic and durable restorations. The report by Prati et al. (University Bologna) described superior results for CLEARFIL™ PHOTO POSTERIOR.



### Bibliography

- M. Özcan: Inlay-retained FRC Restorations on Abutments with Existing Restorations: 6-year Results. IADR, 2010 Abstract #106, Barcelona.

## CLEARFIL™ POSTERIOR 3



### Facts

- Good marginal sealing
- Easy handling
- Radiopaque
- High wear resistance
- Good color stability
- Does not stick to instruments



### Indications

- Classes I, II, V restorations of posterior teeth



### Description

CLEARFIL™ POSTERIOR 3 is a self-curing, radiopaque composite developed especially for economical posterior tooth restorations.



### Product range

#### CLEARFIL™ POSTERIOR 3

#525-EU Catalyst Paste: 13.5 g/6 ml,  
Universal Paste: 12.5 g/6 ml



### Product recommendations



#### For more safety

The CARIES DETECTOR stains tooth hard structure affected by caries in red, while remineralized dentin is not stained, providing maximum security.

#220-EU CARIES DETECTOR (6 ml)



#### Improvement of adhesive properties

We strongly recommend the use of CLEARFIL™ LINER BOND 2V. It secures an excellent sealing of the margin between the tooth hard structure and self-curing filling material.

#1921-EU CLEARFIL™ LINER BOND 2V:  
DC Kit (with Bond B)

## CLEARFIL™ ST OPAQUER



#636-EU L, 1 syringe: 4.0 g  
#637-EU US, 1 syringe: 4.0 g



### Facts

- High opacity
- Immediate coverage of metal by first coat



### Indications

- Masking of the metal during intraoral repair of porcelain fused-to-metal crowns
- Masking of metal in restoration of post and core crowns
- Lightening of stained or discolored teeth in porcelain or composite veneer restorations
- Masking of pulp capping materials



### Description

CLEARFIL™ ST OPAQUER is a light-curing opaque resin, especially indicated to mask underlying metal darkness and tooth discoloration.



### Product range

#### CLEARFIL™ ST OPAQUER

#636-EU L, 1 syringe: 4.0 g

#637-EU US, 1 syringe: 4.0 g

Please see details for the Color Code on the next page.



### Product recommendations



#### Preparation of the metal surface

When a restoration of precious or non-precious alloys is used, they should first be sandblasted or roughened to optimize the adhesion properties and pretreated with ALLOY PRIMER.

#064-EU ALLOY PRIMER (5 ml)



#### The Universal Repair Set

CLEARFIL™ REPAIR is a universal adhesive system, usable in many ways, which allows the direct repair of fractured restorations in only a few minutes.

#1971-EU CLEARFIL™ REPAIR

# Color shades

## Kuraray Color Code

US	Universal Standard	DG	Dark Gray	YBO	Yellow Brown Opaque
UY	Universal Yellow	LO	Light Opaque	DGO	Dark Gray Opaque
UL	Universal Light	YO	Yellow Opaque	L	Light
UO	Universal Opaque	HO	Hollywood Opaque (Bleach White)	U	Universal
XL	Extra Light			Y	Yellow
DY	Dark Yellow	CL	Clear Transparent	G	Gray
YB	Yellow Brown	DYO	Dark Yellow Opaque	B	Brown

## Conversion of the Vita™ Color Code

Vita	A1	A2	A3	A3.5	A4	B0.5	B1	B2	B2.5	B3	B4	C2	C3
*KURARAY	UL	US	DY, (B)	G	–	XL <sup>1</sup>	L, XL <sup>2</sup>	U	UY	Y, YO	YB	OC2	DG

Vita	OA1	OA2	OA3	OB4	Enamel	HO
*KURARAY	LO	UO	DYO	YOB	–	–

\*For the following products only: CLEARFIL™ PHOTO POSTERIOR, CLEARFIL™ PHOTO BRIGHT, CLEARFIL™ ST OPAQUER, CHROMA ZONE™ COLOR STAIN

<sup>1</sup> For CLEARFIL™ PHOTO BRIGHT

<sup>2</sup> For CLEARFIL™ PHOTO POSTERIOR

## Conversion of the Kuraray Color Code to the Vita™ Color Code

Kuraray Color Code	Color description	Shade	Vita™ Color Code
Enamel	Enamel		Enamel
HO	Hollywood Opaque (Bleach White)	Light	} A1
UL	Universal Light	Dark	
LO	Light Opaque	Opaque	
US	Universal Standard		} A2
UO	Universal Opaque	Opaque	
DY	Dark Yellow	Light	} A3
B	Brown	Dark	
DYO	Dark Yellow Opaque	Opaque	
G	Gray		A3.5
XL	Extra Light	Light	} B0.5, B1
L	Light	Dark	
U	Universal		B2
UY	Universal Yellow		B2.5
Y	Yellow		} B3
YO	Yellow Opaque	Opaque	
DYO	Dark Yellow Opaque	Opaque	B3.5
YB	Yellow Brown		} B4
YBO	Yellow Brown Opaque	Opaque	
DGO	Dark Gray Opaque	Opaque	C2
DG	Dark Gray		C3

# Core build-up materials

## Overview

	Core build-up	Post cementation	Self-curing	Light-curing	Radiopaque
<b>CLEARFIL™ DC CORE PLUS</b> 	✓	✓	(✓)	✓	✓
<b>CLEARFIL™ DC CORE AUTOMIX</b> 	✓	✓	(✓)	✓	✓
<b>CLEARFIL™ PHOTO CORE</b> 	✓			✓	✓
<b>CLEARFIL™ CORE</b> 	✓	✓	✓		✓
<b>CORE FORMS</b> 	✓				
<b>Posts</b>					
<b>PANAVIA™ POST</b> 		✓			

Contains color shades	Page number
2	54
2	56
1	58
1	59
	62
	60

( ) : self-curing properties

## CLEARFIL™ DC CORE PLUS



#2942-EU CLEARFIL™ DC CORE PLUS (Dentin)  
#2943-EU CLEARFIL™ DC CORE PLUS (White)

### Facts

- Minimal risk of debonding and root fracture thanks to proper elastic modulus similar to dentin
- Easy-to-use, stress-less clinical procedure
- Dual-curing composite (light-curing with self-curing property)
- Direct application with the automix syringe
- Radiopaque

### Indication

- Core build-up restorations of vital and non-vital tooth

### Description

CLEARFIL™ DC CORE PLUS is a dual-cure (light-cure with self-curing property) two-component core build-up material supplied in an automix delivery system for esthetic and reliable restorations. The self-curing property of this new core material is the perfect solution for those areas of the root canal which are not accessible for light. For all other areas the curing time can be sped up by light-curing. For core build-up restorations, it is essential to reduce the risk of contamination by a short and easy application procedure. CLEARFIL™ DC CORE PLUS is designed for a stress-less application thanks to the simplified procedure, optimal paste handling, and a working time of only 3 minutes. For all steps, applying to the root canal and the core build-up, you can easily use the same mixing tip.

### Product range CLEARFIL™ DC CORE PLUS

- #2942-EU Dentin
- #2943-EU White

### Content

1 syringe (17.9 g/9 ml) in corresponding color,  
20 mixing tips, 10 guide tips (L), 10 guide tips (S)

### Accessoires

- #1022-EU Dispensing dish
- #1023-EU Light blocking plate
- #1024-EU 50 Applicator brushes (fine)
- #1025-EU 50 Applicator brushes (endo)
- #1029-EU Guide Tips (L): 20 tips
- #1030-EU Guide Tips (S): 20 tips
- #1031-EU Mixing Tips: 20 tips



## Product recommendations



CLEARFIL™ DC CORE PLUS Kit

#2940-EU Dentin

#2941-EU White

### Content

CLEARFIL™ DC CORE PLUS: 1 syringe (17.9 g/9 ml) in corresponding color;  
CLEARFIL™ S<sup>3</sup> BOND PLUS: 1 bottle (1 ml);  
Accessories: 20 mixing tips, 10 guide tips (L), 10 guide tips (S), 50 applicator brushes (Endo), 1 dispensing dish, 1 light blocking plate



CLEARFIL™ S<sup>3</sup> BOND PLUS

#2890-EU Set

### Content

1 bottle (4 ml), 50 Applicator brushes (fine),  
1 dispensing dish, 1 light blocking plate



#991-EU CORE FORMS Intro Kit (10 pcs.):

size 1 (1), size 2 (2), size 3 (2),  
size 4 (2), size 5 (2), size 6 (1)



#992-EU CORE FORMS Full Assortment

(60 pcs.): 10 pcs. of size  
1, 2, 3, 4, 5 and 6



#2832-EU CLEARFIL™ DISPENSER: 10 ml  
(for CLEARFIL™ DC CORE PLUS and  
CLEARFIL™ DC CORE AUTOMIX)



#1190-EU PANAVIA™ POST Introductory Kit  
(8 pcs.): 2 pcs. each of sizes  
no. 3, 4, 5 and 6



## Bibliography

- Thitthaweerat, S., Nakajima, M., Tagami, J.: Micro-tensile bond strength of a newly-developed resin core system (MTB-200/NDC-100) to root canal dentin. 135<sup>th</sup> Meeting of the Japanese Society of Conservative Dentistry, Osaka, 2011 #A8 (others).
- Suzuki, K., Kawana, M., Takei, M., Kawashima, M.: Characteristics of a New Core Build-up System "NDC-100" and "MTB-200". 89<sup>th</sup> IADR, 2011 Abstract #1110, San Diego USA.
- Takeuchi, A., Nishimura, M., Hoshika, T., Nishitani, M., Yoshiyama, M.: A study of newly designed resin core system. 135<sup>th</sup> Meeting of the Japanese Society of Conservative Dentistry, Osaka, 2011 #P71 (restorative).
- Matsumoto, M., Miura, J., Yatani, H.: Evaluation of adhesion of newly developed resin composite to radicular dentin in a direct resin core build-up method. 135<sup>th</sup> Meeting of the Japanese Society of Conservative Dentistry, Osaka, 2011 #P72 (restorative).



Please read carefully the relevant instructions for use before utilizing the products.

## Post cementation and core build ups using dual-cured composite resin CLEARFIL™ DC CORE PLUS

Follow the standard procedures for moisture control, preparing root canal and try-in of the post.

### Treatment of post surface

**1** For glass fiber posts

- 1) Apply phosphoric acid, leave in place for 5 sec., wash and air dry.
- 2) Apply silane coupling agent or the mixture of BOND and ACTIVATOR, and dry with mild air.

**For precious metal posts\***

Apply metal adhesive primer and dry with air flow.

**For non-precious metal posts\***

Apply BOND and dry with mild air after 5 sec.

**5s**

\* If necessary, blast with alumina powder before applying.

**2** Apply BOND to the root canal

**10s**

**3** Dry with mild air\*

**+5s**

\* Dry the entire adherent surface sufficiently until BOND does not move. Use a vacuum aspirator to prevent BOND from scattering.

Remove excess BOND with a paper point, and dry with mild air again

**4**

**5** Light-cure

**10s**

**6** Squeeze PASTE\*

**10s**

**7** Insert the post and light-cure PASTE\*

**10s**

**8** Place PASTE around the post

**10s**

**9** Light-cure PASTE<sup>1, 2</sup> from both the lingual and the labial (buccal) sides

**10s**

\* You must start step 7 within 1 min. after light curing unit details, refer to the instructions for use.

\* Refer to the table 2 for light-curing time.

\*1 Refer to the table 2 for light-curing time.  
 \*2 Leave PASTE more than 6 min. after light curing when the thickness of PASTE is greater than the specified curing depth.

## CLEARFIL™ DC CORE AUTOMIX



#362-EU CLEARFIL™ DC CORE AUTOMIX (White)  
#363-EU CLEARFIL™ DC CORE AUTOMIX (Dentin)



### Facts

- High physical properties, cutting like dentin
- Dual-curing composite (light-curing and self-curing)
- Does not stick to instruments
- Radiopaque
- Direct application with the automix syringe



### Indication

- Core build-up restorations of vital and non-vital teeth



### Description

CLEARFIL™ DC CORE AUTOMIX is a dual-curing (light-curing and self-curing) resin core build-up material – which has been especially developed for dependable core build-up. Thanks to its balanced filler contents (74 wt%, 52 vol%), CLEARFIL™ DC CORE AUTOMIX offers excellent physical and mechanical properties. This core build-up material stands for

permanent core build-up restorations involving vital as well as non-vital teeth.

Dual-curing adhesives, especially CLEARFIL™ DC BOND, are recommended for the reliable adhesion to tooth structures. After light-curing, self-curing catalysts of CLEARFIL™ DC BOND accelerate the polymerization speed of CLEARFIL™ DC CORE AUTOMIX from the adhesion layer. The self-curing system also reduces polymerization stress of the resin core material on the tooth boundary.

After dual-curing, CLEARFIL™ DC CORE AUTOMIX can be prepared like dentin. It is radiopaque and does not adhere to instruments thanks to its special formula.

A compressive strength of 296 MPa (dual-curing) / 293 MPa (self-curing) makes CLEARFIL™ DC CORE AUTOMIX the ideal material for small and large core build-ups.

CLEARFIL™ DC CORE AUTOMIX can be used for core build-ups after the insertion of a post with PANAVIA™ F 2.0.



### Product range CLEARFIL™ DC CORE AUTOMIX

- #362-EU White
- #363-EU Dentin

### Content

Catalyst paste (9.9 g/4.5 ml) and universal paste (9.8 g/4.5 ml) in an automix syringe, Mixing tip: 20 tips, Guide tip: 20 tips



### Accessoires

- #1018-EU Mixing tip: 20 tips
- #1019-EU Guide tip (L): 20 tips
- #1020-EU Guide tip (S): 20 tips



## Product recommendations



**CLEARFIL™ DC BOND CORE BUILD-UP Kit**  
**#350-EU White**  
**#351-EU Dentin**

### Content:

**CLEARFIL™ DC CORE AUTOMIX**  
 (in corresponding color): 1 catalyst paste  
 (9.9 g/4.5 ml) and universal paste  
 (9.8 g/4.5 ml) in an automix syringe;  
**CLEARFIL™ DC BOND: Liquid A**  
 and B each 1 ml;  
**Accessories: 20 mixing tips, 20**  
**guide tips, 5 guide tips (S), 50 disposable**  
**brush tips, 1 mixing dish,**  
**1 light blocking plate**



**#2510-EU CLEARFIL™ DC BOND Kit:**  
**Liquid A (4 ml), Liquid B (4 ml),**  
**50 x disposable brush tips,**  
**1 brush tip handle, 1 mixing dish,**  
**1 light blocking plate**



**#991-EU CORE FORMS Intro Kit (10 pcs.):**  
**size 1 (1), size 2 (2), size 3 (2),**  
**size 4 (2), size 5 (2), size 6 (1)**



**#992-EU CORE FORMS Full Assortment**  
**(60 pcs.): 10 pcs. of size**  
**1, 2, 3, 4, 5 and 6**



**#991-EU CLEARFIL™ DISPENSER: 10 ml**  
**(for CLEARFIL™ DC CORE AUTOMIX)**



**#1190-EU PANAVIA™ POST Introductory Kit**  
**(8 pcs.): 2 pcs. each of sizes**  
**no. 3, 4, 5 and 6**



## Bibliography

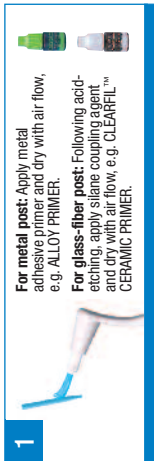
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- Giannini M, De Goes MF, Nikaido T, Shimada Y, Tagami J: Influence of activation mode of dual-cured resin composite cores and low-viscosity composite liners on bond strength to dentin treated with self-etching adhesives. *J Adhes Dent.* 2004 Winter; 6(4):301-6.
- Meu Ariyoshi, Toru Nikaido, Ayako Okada, Richard M. Foxton and Junji Tagami: Dentin Bond Strengths of Three Adhesive/Composite Core Systems using Different Curing Units. *Dental Materials Journal* 27(2):187-194, 2008.
- Bitter K, Paris S, Martus P, Scharfner R, Kielbassa AM: A Confocal Laser Scanning Microscope investigation of different dental adhesives bonded to root canal dentine. *Int Endod J.* 2004 Dec; 37(12):840-8.
- Shindo K, Kakuma Y, Ishikawa H, Kobayashi C, Suda H: The influence of orifice sealing with various filling materials on coronal leakage. *Dent Mater J.* 2004 Sep; 23(3):419-23.
- Ook S, Miyazaki M, Rikut A, Moore BK.: Influence of polymerization mode of dual-polymerized resin direct core foundation systems on bond strengths to bovine dentin. *J Prosthet Dent.* 2004 Sep; 92(3):239-44.
- Aksommuang J, Foxton RM, Nakajima M, Tagami J: Microtensile bond strength of a dual-cure resin core material to glass and quartz fibre posts. *J Dent.* 2004 Aug; 32(6):443-50.
- Tachibana K, Kuroe T, Tanino Y, Satoh N, Ohata N, Sano H, Caputo AA: Effects of incremental curing on contraction stresses associated with various resin composite build-ups. *Quintessence Int.* 2004 Apr; 35(4):299-306.
- Foxton RM, Nakajima M, Tagami J, Miura H: Bonding of photo and dual-cure adhesives to root canal dentin. *Oper Dent.* 2003 Sep-Oct; 28(5):543-51.

# CLEARFIL™ DC BOND CORE BUILD-UP KIT (CLEARFIL™ DC CORE AUTOMIX + CLEARFIL™ DC BOND)

Please read carefully the relevant instructions for use before utilizing the products.

## Core build-ups using CLEARFIL™ DC BOND CORE BUILD-UP KIT (For core build-ups of non-vital tooth)

Treatment of post surface.



Mix equal amounts of liquids A&B. Cover with plate and use within 90 sec.



Apply mixed BOND to the root canal and the cavity wall, leave it in place for 20 sec.



Dry the entire surface with high-pressure oil-free air blow for more than 5 sec.



Remove excess BOND with paper point.



Dry the entire surface with high-pressure oil-free air blow for more than 5 sec.



Light-cure BOND with dental curing light.



Squeeze CLEARFIL™ DC CORE AUTOMIX from the dispenser syringe into the cavity.



Insert the post into the root canal and cure the paste using the dental curing light.



Place the paste around the post.



Light-cure the paste using dental curing light from both the lingual and the labial (buccal) sides and maintain isolation for 6 min.



Dry the entire surface with high-pressure oil-free air blow for more than 5 sec.



Light-cure BOND with dental curing light.



Dry the entire surface with high-pressure oil-free air blow for more than 5 sec.



Light-cure the core using dental curing light from both the lingual and the labial (buccal) sides and maintain isolation for 6 min.

## CLEARFIL™ PHOTO CORE



#355-EU CLEARFIL™ PHOTO CORE

3 syringes: 4.4 g/2 ml or

#366-EU CLEARFIL™ PHOTO CORE PLT

30 PLTs: 0.4 g



### Facts

- Actual polymerization depth of 7 mm
- No increments needed with CORE FORMS
- Esthetic transparent shade
- Cutting like dentin
- Easy handling
- Radiopaque
- Non stick formulation



### Indications

- Restorations where a light-curing composite for core build-up is required



### Description

CLEARFIL™ PHOTO CORE is a light-curing core build-up composite for the most demanding esthetic requirements. The material has a balanced filler share (83 wt%, 68 vol%) which has been specifically selected for the construction of dependable core build-ups. The material cures completely to a depth of 7 mm in just

40 seconds which is unique. Thus clinicians are able to simplify their procedure by eliminating copper bands and matrix bands and incremental layering, especially when using CORE FORMS. CLEARFIL™ PHOTO CORE cuts like dentin after curing, is radiopaque and does not stick to instruments during application thanks to its special formula. With a compressive strength of 334 MPa, CLEARFIL™ PHOTO CORE is ideal for small or large CORE FORMS on vital or devital teeth.



### Product range CLEARFIL™ PHOTO CORE

#355-EU 3 syringes: 4.4 g/2 ml

#356-EU 1 syringe: 4.4 g/2 ml

#366-EU 30 PLTs: 0.4 g each



### Bibliography

- Monticelli F, Osorio R, Albaladejo A, Aguilera FS, Ferrari M, Tay FR, Toledano M: Effects of adhesive systems and luting agents on bonding of fiber posts to root canal dentin. *J Biomed Mater Res B Appl Biomater.* 2005 Oct 21.
- Kajihara H, Suzuki S, Minesaki Y, Kurashige H, Tanaka T: Effect of filler loading on resin cement bonding to silanized build-up composites. *Am J Dent.* 2005 Apr;18(2):109-12.
- Bolhuis P, de Gee A, Feilzer A: The influence of fatigue loading on the quality of the cement layer and retention strength of carbon fiber post-resin composite Core restorations. *Oper Dent.* 2005 Mar-Apr;30(2):220-7.
- Naumann M, Blankenstein F, Dietrich T: Survival of glass fibre reinforced composite post restorations after 2 years-an observational clinical study. *J Dent.* 2005 Apr;33(4):305-12. Epub 2004 Dec 10.
- O'Keefe KL, Powers JM.: Adhesion of resin composite Core materials to dentin. *Int J Prosthodont.* 2001 Sep-Oct;14(5):451-6.
- Aksommuang J, Nakajima M, Foxton RM, Tagami J: Effect of prolonged photo-irradiation time of three self-etch systems on the bonding to root canal dentine. *J Dent.* 2005 Oct 15.

## CLEARFIL™ CORE (CLEARFIL™ CORE NEW BOND)



### Product range CLEARFIL™ CORE

#315-EU 1 catalyst paste: 23 g,  
1 universal paste: 21 g

#315-EU CLEARFIL™ CORE  
1 catalyst paste: 23 g,  
1 universal paste: 21 g



### Facts

- Cutting like dentin
- Economical use
- Simple handling
- Radiopaque
- Predictable curing
- Neutral color shade



### Indication

- Core build-up of vital or devital teeth



### Description

CLEARFIL™ CORE is a self-curing composite core build-up material (filler contents: 78 wt%, 61 vol%) that has a unique shade and high compressive strength. It is especially suitable for the construction of immediate core build-ups. The contrasting esthetically sound color, the good adhesive properties, the characteristic setting qualities, and hardness, which can be compared to dentin, make it possible to build a dependable substructure very simply. CLEARFIL™ CORE is suitable for the construction of both vital and devital teeth.

## PANAVIA™ POST



#1190-EU PANAVIA™ POST Introductory Kit (8 pcs.):  
2 pcs. each of sizes no. 3, 4, 5 and 6



### Description

PANAVIA™ POST is a fiber post made of methacrylate and non-epoxy based resin reinforced glass fibers with high mechanical durability and an optimal elastic modulus for your reliable restorations. This effect is achieved thanks to Kuraray's unique monomer technology and surface treatment technology.

The risk of debonding and root fracture depends on the strong adhesion between the components inside and outside the post and an elastic modulus very similar to dentin. Thus, Kuraray's remarkable experience enables excellent clinical long-term performance.



### Facts

- Excellent mechanical durability of long-term restoration
- Low risk of debonding and root fracture
- Esthetic restoration and ideal light-curing property

### Product characteristics:

- Stabilized interface between glass fibers and resin matrix in the post
- Optimal shape and elastic modulus
- Translucency (metal-free)



### Indications

- Retaining and reinforcing core build-up materials to support coronal restorations



## Product range: PANAVIA™ POST

### #1190-EU Introductory Kit (8 pcs.):

No. 3 (2 pcs.)

No. 4 (2 pcs.)

No. 5 (2 pcs.)

No. 6 (2 pcs.)

### Refill

#1193-EU No. 3 (10 pcs.)

#1194-EU No. 4 (10 pcs.)

#1195-EU No. 5 (10 pcs.)

#1196-EU No. 6 (10 pcs.)



## Product recommendations



### PANAVIA™ F 2.0 Complete Kit

#501-EU TC

#504-EU Light



### PANAVIA™ SA CEMENT Standard Kit

#2980-EU Universal (A2)

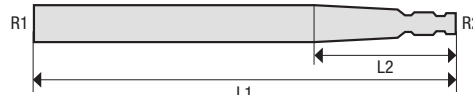
#2981-EU White



### CLEARFIL™ DC CORE PLUS Kit

#2940-EU Dentin

#2941-EU White



	L1	L2	R1	R2
No. 3	18	5	1,04	0,6
No. 4	18	5	1,24	0,6
No. 5	18	5	1,44	0,7
No. 6	18	6	1,64	0,8

All sizes in mm



## Bibliography

- Nakamura, T., Ohshima, T., Waki, T., Kinuta, S., Wakabayashi, K., Mutoke, Y., Takano, N., Yatani, H.: Stress Analysis of Endodontically Treated Teeth Restored with Different Types of Post Material. Dental Materials Journal 25(1) 145-150, 2006.
- Komada, W., Kumagae, N., Fukui, Y., Otake, S., Okada, D., Yoshida, K., Miura, H.: Influence of water immersion on mechanical properties of fiber posts. 88<sup>th</sup> IADR, 2010 Abstract #4564, Barcelona Spain.
- Terakawa, E., Kita, S., Weerasinghe, D.: In-vitro Durability of a New Glass Fiber Post. 88<sup>th</sup> IADR, 2010 Abstract #4558, Barcelona Spain.



Please read carefully the relevant instructions for use before utilizing the products.

## Cementation of cores or prefabricated posts with PANAVIA™ SA CEMENT

Moisture control. Removing a temporary material.

1 Prepare root, and trial-fit PANAVIA POST.



2 Adjust post length using diamond disc.



3 Apply SA CEMENT paste into root canal.



4 Seat post into root canal.



5 Light-cure for 2 to 5 sec.



6 Remove excess cement.



7 Light-cure margins of paste for 20 sec.



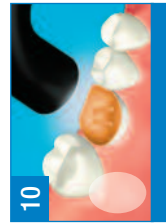
8 Apply S-BOND PLUS, and leave for 10 sec.



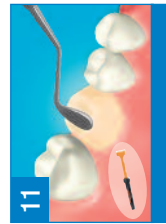
9 Dry by oil-free air-blowing for more than 5 sec.



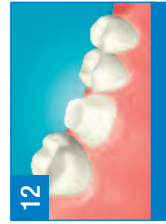
10 Light-cure bond for 10 sec.



11 Apply PHOTO CORE, and light-cure according to instructions.



12 Prepare abutment.



## CORE FORMS



**#992-EU CORE FORMS Full Assortment**  
(60 templates) 6 different sizes, 10 each



### Product range CORE FORMS

**#991-EU Intro Kit** (10 pcs.):  
size 1 (1), size 2 (2), size 3 (2),  
size 4 (2), size 5 (2), size 6 (1)

**#992-EU Full Assortment** (60 pcs.):  
10 pcs of size 1, 2, 3, 4, 5 and 6

### Refill

Available sizes in packages of 10

**#993-EU** size 1

**#994-EU** size 2

**#995-EU** size 3

**#996-EU** size 4

**#997-EU** size 5

**#998-EU** size 6



### Facts

- Avoids increments
- Reduces material consumption and simplifies preparation
- 6 different sizes
- Easy removal



### Indication

- Simplifies a faster and efficient core build-up



### Description

The practical CORE FORMS have been developed for the preparation of dependable core build-ups. The creation of a core build-up without any air bubbles or porosity can be achieved within a short treatment time with the combination of CLEARFIL™ DC CORE AUTOMIX, CLEARFIL™ PHOTO CORE, or CLEARFIL™ CORE.

# Caries detection device

## CARIES DETECTOR

THE ORIGINAL!



2012  
REALITY  
Four Star Award  
★★★★

#220-EU CARIES DETECTOR  
1 bottle: 6 ml

can be remineralized is removed as possible, secures pulp vitality, and preserves the healthy tooth structure. Numerous studies have shown that it is not possible to distinguish, either optically or mechanically using the sensor test, between irreversibly diseased dentin and healthy dentin which can be remineralized. Using CARIES DETECTOR, you can confidently proceed with the excavation because only the irreversibly diseased dentin is stained red.

 **Product range**  
**CARIES DETECTOR**  
#220-EU 1 bottle: 6 ml

### Facts

- Fast and easy use
- Free from side effects
- Preserves healthy tooth hard substance
- Stains tooth hard structure red changed by caries during all preparatory measures in the cavities
- Does not stain remineralizable caries-affected dentin

### Indication

- Disclosing caries dentin in cavity preparations

### Description

CARIES DETECTOR is an excellent means of detecting caries and plays a major role in maintaining and preserving teeth. It provides support for the excavation of the demineralized outer tooth hard structure affected by the caries, making it possible to remove the caries as completely as possible. At the same time, it makes sure that as little healthy dentin which

### Product recommendation



CLEARFIL™ PROTECT BOND is the world's first antibacterial self-etching bonding system which was developed for reducing the risk of secondary caries.

#1910-EU CLEARFIL™ PROTECT BOND Set



#2890-EU CLEARFIL™ S<sup>3</sup> BOND PLUS Set



#1970-EU CLEARFIL™ SE BOND Kit

## TEETHMATE™ DESENSITIZER



**#1210-EU TEETHMATE™ DESENSITIZER Set**  
Powder (6 g), liquid (4.8 ml), 1 mixing dish,  
1 measuring spoon, 50 applicator brushes



### Facts

- First desensitizer that creates hydroxyapatite
- Natural, tissue friendly and neutral taste
- Easy to apply
- Invisible and durable



### Indication

- Treatment of dentin exposed by toothbrush abrasion, gingival recession, periodontal disease and/or acid erosion
- Treatment of dentin after mechanical tooth cleaning, scaling and/or root planing
- Treatment of the tooth surface before and after bleaching
- Treatment of prepared dentin for fillings and/or prosthetic restorations



### Description

TEETHMATE™ DESENSITIZER is the first desensitizer that offers a real solution for sensitivity. Kuraray Noritake Dental designed this product to create the human body's hardest mineral, hydroxyapatite (HAp). So from now on, sensitivity can be treated with confidence to close dentinal tubules and enamel cracks.

TEETHMATE™ DESENSITIZER can be used to close exposed or prepared dentin and also before and after bleaching. TEETHMATE™ DESENSITIZER can be also used in combination with the favorite adhesive or cement.

This is a brand new product on the European market, and received great appreciation amongst dentists already in Japan.

Various studies show that the application of TEETHMATE™ DESENSITIZER is effective and occlude the dentinal tubules reducing the dentinal fluid movement and the consequent hypersensitivity. This product is very easy to apply; just mix the powder and the liquid for 15 seconds, apply for 30 seconds on the sensitive area (one or more teeth) and then rinse with a mild water flow.



### Product range TEETHMATE™ DESENSITIZER

#### #1210-EU Set

Powder (6 g), liquid (4.8 ml), 1 mixing dish,  
1 measuring spoon, 50 applicator brushes

#### #1215-EU Introductory Set

Powder (1.2 g), liquid (1.0 ml), 1 mixing dish,  
1 measuring spoon, 50 applicator brushes

### Refill

#1216-EU Powder (6 g)

#1217-EU Liquid (4.8 ml)

### Accessories

#1220-EU 1 measuring spoon

#1221-EU 50 applicator brushes



### Product recommendations



#### PANAVIA™ F 2.0 Complete Kit

#501-EU TC

#504-EU Light

## TEETHMATE™ F-1



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TEETHMATE™ F-1 Kit (color selection)  
2 pin applicators + accessories



### **i** Facts

- High bond strength to enamel
- Real chemical bond thanks to MDP monomer
- Long-lasting fluoride release with molecular stability
- Easy handling
- Convenient flow control

### **+** Indication

- Pit and fissure sealant

### **📄** Description

TEETHMATE™ F-1 is a fluoride-releasing, light-curing pit and fissure sealant material with strong adhesive properties. It is offered to simplify the “flow control” with a newly developed pin application system. The stable copolymer which releases fluoride is one of Kuraray’s own inventions. TEETHMATE™ F-1 is an unfilled composite of low viscosity that penetrates deep into pit and fissures so that the impairment of

the antagonist is kept to a minimum. The balanced product formula of TEETHMATE™ F-1 includes the adhesive monomer MDP, which is also used in the resin cement PANAVIA™ F 2.0 and the bonding system CLEARFIL™ SE BOND.

The special properties of the monomer MDP give TEETHMATE™ F-1 a genuine chemical adhesion and better retention on the etched tooth enamel.

### **📁** Product range TEETHMATE™ F-1

- #1760-EU Kit Natural
- #1770-EU Kit Red
- #1790-EU Kit Opaque

### Content

- 1 TEETHMATE™ F-1: 2 x 2.5 ml
- 1 K-ETCHANT GEL
- 1 brush tip handle
- 50 disposable brush tips
- 2 x 25 applicator nozzles
- 1 mixing plate

### Refill

- #1765-EU Natural: 2.5 ml
- #1775-EU Red: 2.5 ml
- #1795-EU Opaque: 2.5 ml
- #013-EU K-ETCHANT GEL: 6 ml
- #919-EU TEETHMATE™ applicator nozzles: 25 pcs.

The form and flexibility of the enclosed applicator nozzles simplify access and ensure simple handling and good control of the liquid. The remainder of the composite on the specially formed applicator can be easily read through a transparent window.



## KURASPER™ F



### Facts

- Special bonding without damage of enamel
- Immediate high bond strength
- Long-term fluoride release
- Easy handling



### Indications

#### Applicable brackets

- Metal brackets
- Ceramic brackets
- Composite brackets with a mechanical retention at base surface

#### Inapplicable brackets

- Polycarbonate brackets
- Preprimed brackets with base surface coated with PMMA or other polymer
- Composite brackets without a mechanical retention at base surface



### Description

KURASPER™ F is a light-curing adhesive for use in orthodontics which continuously releases minute quantities of fluoride ions around the adhesion points of the brackets. As a way to simplify the orthodontic

treatment, KURASPER™ F has just the right viscosity to prevent slipping during the bracket fitting. At the same time, KURASPER™ F offers the required processing time for exact placement of the bracket. Immediately after it has been light-cured, KURASPER™ F develops a high bond strength so that the orthodontist can immediately burden the material.



### Product range KURASPER™ F

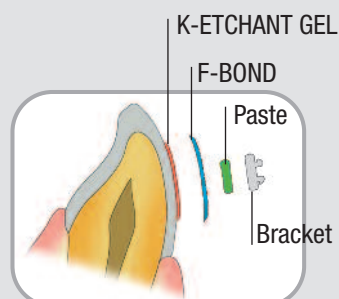
#### #090-EU Kit

#### Content

- F-BOND: 2 ml
- Paste: 2 ml (4 g)
- K-ETCHANT GEL: 6 ml
- 50 disposable brush tips
- 1 brush tip handle
- 1 mixing dish
- 1 light blocking plate

#### Refill

- #093-EU F-BOND
- #094-EU Paste
- #095-EU F-BOND + Paste



## ALLOY PRIMER



#064-EU ALLOY PRIMER  
1 bottle: 5 ml



### Facts

- Multiple indications
- Intra- and extra-oral use
- Increases bond strength to precious metal alloy
- Replaces the procedure of tin-plating metals
- Economical use



### Indications

- Adhesion of metal inlays, onlays, crowns and bridges
- Adhesion of metal cast posts
- Repair of fractured resin-based veneers and ceramic-fused metal crowns and bridges
- Fabrication of removable dentures with metal base, clasp or attachment
- Repair of dentures



### Description

ALLOY PRIMER is a pretreatment agent for conditioning metal and is used to secure the adhesive capability of resins and acrylic ester to gold, titanium, and other dental alloys. Tin-plating of the metal surfaces is no longer required because the ALLOY PRIMER creates excellent bond strength to the metal surface. The chemical bond thus created provides ideal adhesion of composite resins to all metal alloys so that the ALLOY PRIMER can also be used during the repair of fractured restorative materials in the dentist's office and the laboratory.

ALLOY PRIMER is simple and economical to use: apply a thin coating to the roughened or sand-blasted and cleaned metal surface and allow it to react for 5 seconds. Continue with the adhesion procedure as usual.



### Product range ALLOY PRIMER

#064-EU 1 bottle: 5 ml



### Bibliography

- Kern M, Barloi A, Yang B.: Surface conditioning influences zirconia ceramic bonding. J. Dent Res. 2009 Sep;88(9):817-22.
- Yang B, Barloi A, Kern M.: Influence of air-abrasion on zirconia ceramic bonding using an adhesive composite resin. Dent Mater. 2010 Jan;26(1):44-50.

## K-ETCHANT GEL



#013-EU K-ETCHANT GEL  
1 bottle: 6 ml



### Facts

- Thixotropic properties provide controlled application
- 40% phosphoric acid



### Indications

- Etching of enamel, especially uncut enamel, and dentin
- Cleaning of the ceramic, hybrid ceramic, composite resin or metal restoration surface
- Activation of the surface of silica-based ceramic or composite resin restorations



### Description

K-ETCHANT GEL is a thixotropic etching gel which is used to etch tooth enamel, dentin, ceramics, hybrid ceramics and cured composites for adhesive restorations. Its special feature: when you shake the bottle, the content becomes liquid, simplifying the application of K-ETCHANT GEL.

When it comes into contact with oxygen, it reverts to the gel state, ensuring that only those areas which are supposed to be treated are etched.



### Application



Etching of tooth enamel with K-ETCHANT GEL when using the acid etching technique.



Etching all-ceramic crowns with K-ETCHANT GEL before preparation of a silane layer.



Cleaning of ceramic inlays with K-ETCHANT GEL before the adhesive cementing.



Etching of veneers with K-ETCHANT GEL before creating a silane layer.



Cleaning of ceramic and metal with K-ETCHANT GEL during intraoral repair of a veneer, before contact with an adhesive, e.g., REPAIR KIT.



### Product range K-ETCHANT GEL

#013-EU 1 bottle: 6 ml



## CLEARFIL™ CERAMIC PRIMER



#2550-EU CLEARFIL™ CERAMIC PRIMER  
1 bottle: 4 ml



### Description

The newly developed CLEARFIL™ CERAMIC PRIMER secures a unique adhesion to all materials for esthetic restorations. In addition to the tried and proven adhesive monomer MDP for bonding to metal oxide, it contains the silane coupling agent MPS which guarantees strong adhesion to all materials for esthetic restorations. CLEARFIL™ CERAMIC PRIMER maintains excellent adhesion property in long-term storage by the optimum combination of the ingredients. All of the CLEARFIL™ ESTHETIC CEMENT Kits contain CLEARFIL™ CERAMIC PRIMER, which can also be ordered separately.



### Facts

- Pretreatment for restorations made of ceramics (e.g. zirconium oxide, aluminium oxide, silica-based ceramics), hybrid ceramics (e.g. ESTENIA™ C&B) or composite resin
- Contains the silane coupling agent MPS ( $\gamma$ -Methacryloyloxypropyl trimethoxysilane) and phosphate monomer MDP for strong, permanent adhesion to all materials for esthetic restoration
- Simple use (apply and dry)
- Contained in all kits of the new CLEARFIL™ ESTHETIC CEMENT



### Product range CLEARFIL™ CERAMIC PRIMER

#2550-EU 1 bottle: 4 ml



### Product recommendation

CLEARFIL™ ESTHETIC CEMENT has been especially developed for the esthetic cementation of all restorations made of ceramic (e.g. zirconium oxide, aluminium oxide and silica-based ceramic), hybrid ceramic (e.g. ESTENIA™ C&B), and composite resin. 5 colors and TRY IN PASTES (test pastes) of identical colors make invisible restorations possible. The practical automix syringe makes application easy and fast. The complete kit contains all of the colors for testing, CLEARFIL™ CERAMIC PRIMER, and an abundance of accessories. #2520-EU CLEARFIL™ ESTHETIC CEMENT Complete Kit



### Indications

- Surface treatment of porcelain, ceramics, hybrid ceramics or composite resin
- Intraoral repairs of fractured crowns/bridges made of ceramics, hybrid ceramics (e.g. ESTENIA™ C&B) or composite resin



### Bibliography

- Kern M, Barloi A, Yang B.: Surface conditioning influences zirconia ceramic bonding. J. Dent Res. 2009 Sep;88(9):817-22.
- Yang B, Barloi A, Kern M.: Influence of air-abrasion on zirconia ceramic bonding using an adhesive composite resin. Dent Mater. 2010 Jan;26(1):44-50.



## CLEARFIL™ PORCELAIN BOND ACTIVATOR



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REALITY  
Four Star Award  
★★★★

#061-EU CLEARFIL™ PORCELAIN BOND ACTIVATOR  
1 bottle: 4 ml

CLEARFIL™ SE BOND, the primer of CLEARFIL™ PROTECT BOND, the primers of CLEARFIL™ LINER BOND 2V, or the total-etch adhesives CLEARFIL™ PHOTO BOND and CLEARFIL™ NEW BOND, guarantees high bond strength. The fresh mixture can be applied directly onto the surface of restorations made of ceramic, hybrid ceramic or composite resin to improve the bond strength, then start adhesion procedure as usual. The adhesion system is convenient, uncomplicated, economical and time-saving.



### Product range CLEARFIL™ PORCELAIN BOND ACTIVATOR

#061-EU 1 bottle: 4 ml



### Facts

- To create a silane adhesive layer
- Fresh mixing with CLEARFIL™ S<sup>3</sup> BOND, the primer of CLEARFIL™ SE BOND, the primer of CLEARFIL™ PROTECT BOND, the primers of CLEARFIL™ LINER BOND 2V, CLEARFIL™ PHOTO BOND or CLEARFIL™ NEW BOND, guarantees high bond strength
- Pretreatment for restorations made of ceramic or composite resin
- Suitable for intraoral and extraoral use
- Economical use



### Application



Activate silane: mix the primer of CLEARFIL™ SE BOND and PORCELAIN BOND ACTIVATOR in a ratio of 1:1 in a mixing bowl.



Apply silane to the workpiece and allow to react for 5 sec.



### Indications

- Surface treatment of ceramics, hybrid ceramics or composite resin after mixing the adhesives or primer (e.g. CLEARFIL™ S<sup>3</sup> BOND, the primer of CLEARFIL™ SE BOND etc.)
- Intraoral repairs of fractured crowns/bridges made of ceramic, hybrid ceramic or composite resin



### Product recommendations



#2892-EU CLEARFIL™ S<sup>3</sup> BOND PLUS: 4 ml



#1982-EU CLEARFIL™ SE BOND Primer: 6 ml



### Description

CLEARFIL™ PORCELAIN BOND ACTIVATOR is a product used for the creation of a silane layer which in combination with CLEARFIL™ S<sup>3</sup> BOND PLUS, the primer of

## CLEARFIL™ SA PRIMER



 **Product range**  
**CLEARFIL™ SA PRIMER**  
#066-EU 1 bottle: 6 ml

 **Product recommendation**



CLEARFIL™ SA PRIMER enhances the bond strength of CLEARFIL™ PHOTO BOND.  
#075-EU CLEARFIL™ PHOTO BOND

### Facts

- Stabilizes collagen fibers to enable bonding agent penetration
- Enhances bond strength of CLEARFIL™ PHOTO BOND

### Indications

- Restorations of all cavity classes, applied prior to CLEARFIL™ PHOTO BOND

### Description

CLEARFIL™ SA PRIMER is an adhesion primer containing salicylic derivative monomer to promote the affinity to collagen fibers.

## CLEARFIL™ REPAIR



2012  
REALITY  
Four Star Award  
★★★★

#1971-EU CLEARFIL™ REPAIR Kit



### Facts

- Multifunctional kit
- High bond strength to ceramic, hybrid ceramic and composite resin restorations
- Enables direct repairs in a few minutes
- Includes self-etching CLEARFIL™ SE BOND
- Contains the adhesion monomer MDP



### Indications

- Intraoral repairs of fractured ceramic or composite veneers/bridges
- Intraoral repairs of fractured all-ceramics restorations
- Intraoral repairs of fractured ceramic and composite inlays/onlays and/or exposed root surfaces



### Description

CLEARFIL™ REPAIR is an universal adhesive system which can be used in many ways and which enables the repair of all tooth-related fractures within only minutes. The system has been specifically developed for all direct bonding procedures in dental practice, irrespective of whether the materials being treated are tooth structure, ceramic, hybrid ceramics, metal, or composite. The kit contains five innovative components of high quality: the tried and proven self-etching bonding system CLEARFIL™ SE BOND, the metal primer ALLOY PRIMER which makes additional tin-plating superfluous, the silane coupling agent CLEARFIL™ PORCELAIN BOND ACTIVATOR, the CLEARFIL™ ST OPAQUER, the etching gel K-ETCHANT GEL with 40% phosphoric acid, and accessories.



### Product range CLEARFIL™ REPAIR

#### #1971-EU Kit

#### Content:

- 1 CLEARFIL™ SE BOND Primer: 6 ml
- 1 CLEARFIL™ SE BOND Bond: 5 ml
- 1 ALLOY PRIMER: 1 ml
- 1 CLEARFIL™ PORCELAIN BOND ACTIVATOR: 4 ml
- 1 K-ETCHANT GEL: 6 ml
- 1 CLEARFIL™ ST OPAQUER (US): 4.0 g
- Accessories: 1 mixing dish, 1 light blocking plate, 2 x 50 disposable brush tips, 1 brush tip handle, outer case

## DISPENSER



#2831-EU DISPENSER: 5 ml



#2832-EU DISPENSER: 10 ml



### Facts

- Easy & quick dispensing
- Very tolerant regarding clinical technique
- More convenience for direct application into root canal in combination with Endo tip



### Indications

- To facilitate easy, precise dispensing of automix syringe products.



### Description

CLEARFIL™ DISPENSER is designed to be used with automix syringe products to facilitate easy dispensing and precise placement of the automix paste.



### Product range DISPENSER

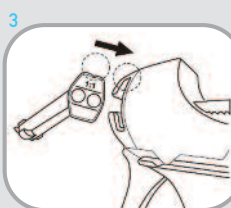
#2831-EU 5 ml (for PANAVIA™ SA CEMENT)

#2832-EU 10 ml (for CLEARFIL™ DC CORE PLUS and CLEARFIL™ DC CORE AUTOMIX)

Please read the instruction for use of this dispenser before using.

1 Prepare the dispenser to receive the syringe by pushing the release lever located on the back of the dispenser.

2 Remove the syringe plunger by pulling it back while holding the syringe.



The syringe fits into the dispenser only in one direction. Orient the syringe to match the slot on the front of the dispenser. Slide the syringe into the dispenser until a click is heard.

4 Attach Mixing tip or Endo tip.

5 Dispense.

# Accessories

**01 #917-EU** Disposable nozzles (OXYGUARD™ II): 20 nozzles



**02 #919-EU** Disposable nozzles (TEETHMATE™ F-1): 25 nozzles



**03 #968-EU** Disposable brush tips (white): 50 tips



**04 #2207-EU** Polishing brush (ESTENIA™ C&B)



**05 #2208-EU** Felt wheel (ESTENIA™ C&B)



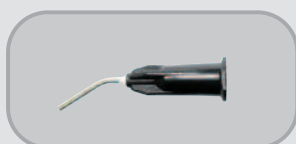
**06 #1018-EU** Mixing tip (CLEARFIL™ DC CORE AUTOMIX): 20 tips  
**#1019-EU** Guide tip (CLEARFIL™ DC CORE AUTOMIX): 20 tips  
**#1020-EU** Guide tip (S) (CLEARFIL™ DC CORE AUTOMIX): 20 tips



**07 #2552-EU** Mixing tip (CLEARFIL™ ESTHETIC CEMENT): 20 tips  
**#2988-EU** Mixing tip (PANAVIA™ SA CEMENT): 20 tips  
**#2989-EU** Endo tip (PANAVIA™ SA CEMENT): 20 tips



**08 #1015-EU** Needle tips (CLEARFIL MAJESTY™ Flow): 20 tips



**09 #1029-EU** CLEARFIL™ DC CORE PLUS: Guide Tip (L): 20 tips  
**#1030-EU** CLEARFIL™ DC CORE PLUS: Guide Tip (S): 20 tips  
**#1031-EU** CLEARFIL™ DC CORE PLUS: Mixing Tip: 20 tips

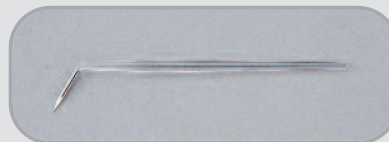


# Accessories

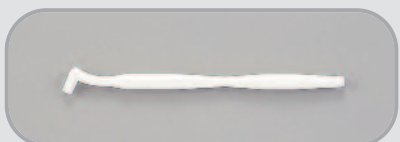
10 #901-EU Brush, small (transparent)



11 #921-EU Brush, small (straight flat transparent)



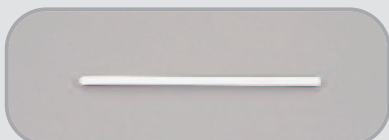
12 #965-EU Brush tip handle (white)



13 #966-EU Brush tip handle (black)



14 #905-EU Mixing spatula (Self-curing composites):  
100 pcs.



15 #906-EU Mixing spatula (PANAVIA™,  
CLEARFIL™ ESTHETIC CEMENT)



16 #1809-EU ESTENIA™ C&B Instrument No.1  
#1810-EU ESTENIA™ C&B Instrument No.2  
#1811-EU ESTENIA™ C&B Instrument No.3



17 #1024-EU Applicator brush, fine (CLEARFIL™ S<sup>3</sup> BOND PLUS)  
#1025-EU Applicator brush, endo (CLEARFIL™ S<sup>3</sup> BOND PLUS)



18 #1221-EU TEETHMATE™ DESENSITIZER  
Applicator brush: 50 pcs.



19 #1220-EU TEETHMATE™ DESENSITIZER  
Measuring spoon

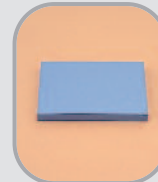


# Accessories

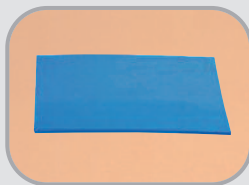
20 #904-EU Mixing pad (white)



21 #945-EU Mixing pad (blue: 83 x 59 mm):  
PANAVIA™ 21, PANAVIA™ F 2.0



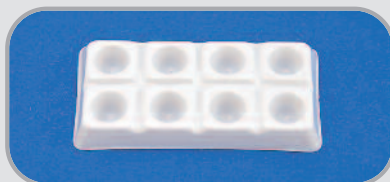
22 #924-EU PANAVIA™ EX Mixing pad  
(blue: 115 x 85 mm)



23 #902-EU Mixing dish (CLEARFIL™ adhesives, CLEARFIL™  
ESTHETIC CEMENT, TEETHMATE™ DESENSITIZER)



24 #912-EU Mixing dish (8 wells)



25 #953-EU Mixing dish (PANAVIA™ F 2.0)



26 #941-EU Sponge



27 #1022-EU Dispensing dish (CLEARFIL™ S<sup>3</sup> BOND PLUS)  
#1023-EU Light blocking plate (CLEARFIL™ S<sup>3</sup> BOND PLUS)





## ESTENIA™ C&B



### Description

ESTENIA™ C&B, the advanced material for the preparation of crowns and bridges, is one of a new class of materials, the hybrid ceramics. Hybrid ceramics are advanced composite materials with high reinforcement resistance which is the result of the loading of a resin matrix containing a micro filler (particle size 2 µm) with a high proportion of nano filler particles (particle size 2 nm). Thanks to the high filler substance proportion of 92% by weight (82% by volume), ESTENIA™ C&B has especially high density, which is achieved by a special filler surface treatment technique. This gives a highly homogeneous structure with excellent physical properties which is particularly suitable for posterior and anterior tooth restorations. EG Fiber is a fiber framework material for use in bridge spans, consisting of monomers, surface-treated glass fiber, and surface-treated micro filler. The indication enables the bridge used framework material by using an exclusive glass fiber frame EG Fiber. ESTENIA™ thus provides an easy-to-use esthetic alternative to ceramic and metal crowns.



### Facts

- High-filled hybrid ceramic (filler content 92 wt%, 82 vol%) with physical properties similar to ceramic
- Excellent physical properties, and offering esthetic restorations
- For custom manufacture of crowns and bridges in a laboratory
- Faster and more economical alternative to metal and all-ceramic
- Simple fabrication of bridges with framework by using the fiber framework material EG Fiber



### Indications

- Facing cast crowns and facing cast bridges
- Jacket crowns
- Inlays and onlays
- Bridges with frameworks



### Product range ESTENIA™ C&B

#### #2395-EU Standard Kit

#### Content

##### 1. Opaque Resin (2.0 ml)

- 1) Body Opaque  
OA2, OA3, OA3.5, OB3, OD3
- 2) Cervical Opaque (6.4 g/2.6 ml)  
CO1, CO2, CO4
- 3) Opaque Modifier  
P

##### 2. Body Resin (6.4 g/2.6 ml)

- 1) Opacious Dentin (6.4 g/2.6 ml)  
ODA2, ODA3, ODA3.5, ODB3, ODD3
- 2) Dentin (6.4 g/2.6 ml)  
DA2, DA3, DA3.5, DB3, DD3

## ESTENIA™ C&B

- 3) Cervical (6.4 g/2.6 ml)  
CE1, CE2, CE4, CE7
- 4) Enamel (6.4 g/2.6 ml)  
E1, E2, E3
- 5) Transparent (6.4 g/2.6 ml)  
T1
- 6) Cervical Transparent (6.4 g/2.6 ml)  
CT2
- 7) Enamel Effect (6.4 g/2.6 ml)  
WE
- 8) Transparent Effect (6.4 g/2.6 ml)  
TG, AM
- 9) Gingival (6.4 g/2.6 ml)  
P1

### 3. Others

- 1) Opaque Primer (9 ml)
- 2) Modeling Liquid (6 ml)
- 3) Add-On Primer (6 ml)
- 4) Air Barrier Paste (10 ml)
- 5) CR SEP III (20 ml)
- 6) Polishing compound (10 g)
- 7) Polishing brush (12 pcs.)
- 8) Felt wheel (12 pcs.)
- 9) Instrument No. 1 (1 pc.)
- 10) Instrument No. 2 (1 pc.)
- 11) Instrument No. 3 (1 pc.)
- 12) Jacket Spacer (5 ml)
- 13) Margin Sep (5 ml)
- 14) Small brush (Transparent) (2 pcs.)
- 15) Small brush (Straight Blue) (2 pcs.)
- 16) Small brush (Straight Flat Gray) (2 pcs.)
- 17) Mixing Plate (8 pcs.)

### #2396-EU A3 Intro Kit

#### Content

##### 1. Opaque Resin (2.0 ml)

- 1) Body Opaque  
OA3

##### 2. Body Resin (6.4 g/2.6 ml)

- 1) Opaque Dentin (6.4 g/2.6 ml)  
ODA3
- 2) Dentin (6.4 g/2.6 ml)  
DA3
- 3) Cervical (6.4 g/2.6 ml)  
CE1
- 4) Enamel (6.4 g/2.6 ml)  
E1
- 5) Transparent (6.4 g/2.6 ml)  
T1
- 6) Cervical Transparent (6.4 g/2.6 ml)  
CT2

### 3. Others

- 1) Opaque Primer (9 ml)
- 2) Modeling Liquid (6 ml)
- 3) Add-On Primer (6 ml)
- 4) Air Barrier Paste (10 ml)
- 5) CR SEP III (20 ml)
- 6) Polishing compound (10 g)
- 7) Polishing brush (3 pcs.)
- 8) Felt wheel (3 pcs.)
- 9) Instrument No.1 (1 pc.)
- 10) Jacket Spacer (5 ml)
- 11) Margin Sep (5 ml)
- 14) Small brush (Transparent) (2 pcs.)
- 15) Small brush (Straight Blue) (2 pcs.)
- 16) Small brush (Straight Flat Gray) (2 pcs.)
- 17) Mixing Plate (8 pcs.)

### #2405-EU EG Fiber Set

#### Content

1. EG Fiber
  - EG Fiber for Anterior (2 pcs.)
  - EG Fiber for Posterior (2 pcs.)
2. EG Flow (1.0 ml)
3. EG CORE (6 pcs.)

#2401-EU EG Fiber for Anterior (2 pcs.)

#2402-EU EG Fiber for Posterior (2 pcs.)

#2403-EU EG Flow (1.0 ml)

#2404-EU EG CORE (6 pcs.)

**#275-EU Jacket Separate Kit**

**Content**

Jacket Spacer (5 ml)  
Margin Sep (5 ml)

**Refill**

#274-EU Jacket Spacer (5 ml)  
#273-EU Margin Sep (5 ml)

**#2209-EU Polishing Set**

**Content**

Polishing compound (10 g)  
Polishing brush (12 pcs.)  
Felt wheel (12 pcs.)

**Refill**

#2205-EU Polishing compound (10 g)  
#2207-EU Polishing brush (12 pcs.)  
#2208-EU Felt wheel (12 pcs.)

#2213-EU Instrument Set  
Instrument No. 1, No. 2, No. 3

**Refill**

#1809-EU Instrument No. 1  
#1810-EU Instrument No. 2  
#1811-EU Instrument No. 3



**#850-EU LIGHT CURING-300**  
(LC300): LIGHT-CURING  
UNIT FOR ESTENIA™ C&B

**Dimension:**

Main Body W170 x D300 x H240mm  
Curing Container W80 x D90 x  
H45mm (with tray, inside dimension)  
W112 x D133 x H87mm (without  
tray, inside dimension)  
Voltage: AC115V/AC220V, 50/60Hz  
Power consumption: 400W  
Weight: 6.7kg



**#851-EU HEAT CURING-110**  
(HC110): HEAT-CURING  
UNIT FOR ESTENIA™ C&B

**Dimension:**

Main Body W143 x D220 x H211mm  
Curing Tray W119 x D99 x H120mm  
Voltage: AC115V, 50/60Hz  
Power consumption: 170W  
Weight: 1.8kg  
Pre-set temperature: 100~120°  
(10 minutes)

## CHROMA ZONE™ COLOR STAIN



#1600-EU CHROMA ZONE™ COLOR STAIN Kit



### Facts

- Abundant colors
- Excellent handling property



### Indications

- Composite resin for crowns and bridges (facing crown, jacket crown)
- Composite resin inlay



### Description

CHROMA ZONE™ COLOR STAIN are light-curing composite pastes of low viscosity and are used for the characteristic coloring of crowns and bridges or inlays/onlays made of composite materials such as ESTENIA™ C&B or Epricord™. The CHROMA ZONE™ COLOR STAIN Kit includes 11 color pastes, one clear paste, and accessories.



### Product range CHROMA ZONE™ COLOR STAIN

#### #1600-EU Kit

#### Content

Clear (C)	(0.5 ml)
White (W)	(0.5 ml)
Pale Pink (PP)	(0.5 ml)
Yellow (Y)	(0.5 ml)
Orange (O)	(0.5 ml)
Red (R)	(0.5 ml)
Brown (B)	(0.5 ml)
Dark Brown (DBR)	(0.5 ml)
Russet Brown (RBR)	(0.5 ml)
Blue (BLU)	(0.5 ml)
Black (BL)	(0.5 ml)
Clear Paste	(2.0 g/1.2 ml)
Color Table	(1 pc.)
Mixing dish (8 wells)	(10 pcs.)
Mixing pad	(1 pc.)
Small brush (Transparent)	(1 pc.)

#### Refill

#1601-EU	Clear (C)
#1602-EU	White (W)
#1603-EU	Pale Pink (PP)
#1604-EU	Yellow (Y)
#1605-EU	Orange (O)
#1606-EU	Red (R)
#1607-EU	Brown (B)
#1608-EU	Dark Brown (DBR)
#1609-EU	Russet Brown (RBR)
#1610-EU	Blue (BLU)
#1611-EU	Black (BL)
#1620-EU	Clear Paste
#1625-EU	Color Table



### Color Code

See Page 83 for definition.

## Epicord™



matching can be achieved by simple operation using just two Opaque resins, Cervical and Incisal. The number of color variations has been increased to make it possible to offer a wide range of color matching without requiring high level skill, as often needed when using ceramics. Epicord™ offers high physical properties in addition to esthetic properties and easy handling. Needless to say about the strength and durability of Body resin, it combines with a metal-adhesive primer containing phosphate monomer (MDP) to provide a strong bond for the resin to a metal frame, producing an exceptionally esthetic restoration.



### Facts

- Accurate color matching
- Simple operation
- A wide range of color matching
- Economical product characteristics
- High strength and adhesion to metal



### Indications

- Restorations using facing crowns, facing bridges or jacket crowns
- Repairs of the polymer based crown and bridge material or ceramic of facing and jacket crowns



### Description

Epicord™ reproduces accurate color matching of the patient's original tooth in accordance with the Vita™ shade guide (classical). With basic colors reviewed according to the Vita™ shade guide (classical), it reproduces vivid texture like natural tooth structure by the double-layer method. A high level of color



### Product range Epicord™

#### #2111-EU Standard Set

#### Content

Transparent (T)	(2.6 ml)
Enamel (E1)	(2.6 ml)
Enamel (E2)	(2.6 ml)
Enamel (E3)	(2.6 ml)
Dentin (DA1)	(2.6 ml)
Dentin (DA2)	(2.6 ml)
Dentin (DA3)	(2.6 ml)
Dentin (DA3.5)	(2.6 ml)
Dentin (DA4)	(2.6 ml)
Dentin (DB3)	(2.6 ml)
Dentin (DB4)	(2.6 ml)
Dentin (DC3)	(2.6 ml)
Opacious Dentin (ODA1)	(2.6 ml)
Opacious Dentin (ODA2)	(2.6 ml)
Opacious Dentin (ODA3)	(2.6 ml)
Opacious Dentin (ODA3.5)	(2.6 ml)
Opacious Dentin (ODA4)	(2.6 ml)

## Epricord™

Cervical (CE1)	(2.6 ml)
Cervical (CE2)	(2.6 ml)
Cervical (CE3)	(2.6 ml)
Cervical (CE4)	(2.6 ml)
Cervical (CE5)	(2.6 ml)
Body Opaque (OA1)	(2.0 ml)
Body Opaque (OA2)	(2.0 ml)
Body Opaque (OA3)	(2.0 ml)
Body Opaque (OA3.5)	(2.0 ml)
Body Opaque (OA4)	(2.0 ml)
Body Opaque (OB2)	(2.0 ml)
Body Opaque (OB3)	(2.0 ml)
Body Opaque (OC3)	(2.0 ml)
Cervical Opaque (CO1)	(2.0 ml)
Cervical Opaque (CO2)	(2.0 ml)
Cervical Opaque (CO3)	(2.0 ml)
Incisal Opaque (IO1)	(2.0 ml)
Incisal Opaque (IO2)	(2.0 ml)
Base Material	(2.6 ml)
Opaque Primer	(9.0 ml)
Repair Liquid	(6.0 ml)
Small brush (Transparent)	(2 pcs.)
Small brush (Straight Blue)	(2 pcs.)
Small brush (Straight Flat Gray)	(2 pcs.)
Mixing plate	(8 pcs.)

### #2113-EU A3 Set

#### Content

Transparent (T)	(2.6 ml)
Enamel (E1)	(2.6 ml)
Dentin (DA3)	(2.6 ml)
Opacious Dentin (ODA3)	(2.6 ml)
Cervical (CE1)	(2.6 ml)
Body Opaque (OA3)	(2.0 ml)
Cervical Opaque (CO1)	(2.0 ml)
Incisal Opaque (IO1)	(2.0 ml)
Opaque Primer	(9.0 ml)
Repair Liquid	(6.0 ml)
Small brush (Transparent)	(1 pc.)
Small brush (Straight Blue)	(1 pc.)
Small brush (Straight Flat Gray)	(1 pc.)
Mixing plate	(1 pc.)

# Color shades

## Kuraray Color Code

US	Universal Standard	DG	Dark Gray	YBO	Yellow Brown Opaque
UY	Universal Yellow	LO	Light Opaque	DGO	Dark Gray Opaque
UL	Universal Light	YO	Yellow Opaque	L	Light
UO	Universal Opaque	HO	Hollywood Opaque (Bleach White)	U	Universal
XL	Extra Light			Y	Yellow
DY	Dark Yellow	CL	Clear Transparent	G	Gray
YB	Yellow Brown	DYO	Dark Yellow Opaque	B	Brown

## Conversion of the Vita™ Color Code

Vita	A1	A2	A3	A3.5	A4	B0.5	B1	B2	B2.5	B3	B4	C2	C3
*KURARAY	UL	US	DY, (B)	G	–	XL <sup>1</sup>	L, XL <sup>2</sup>	U	UY	Y, YO	YB	OC2	DG

Vita	OA1	OA2	OA3	OB4	Enamel	HO
*KURARAY	LO	UO	DYO	YOB	–	–

\* For the following products only: CLEARFIL™ PHOTO POSTERIOR, CLEARFIL™ PHOTO BRIGHT, CLEARFIL™ ST OPAQUER, CHROMA ZONE™ COLOR STAIN

<sup>1</sup> For CLEARFIL™ PHOTO BRIGHT

<sup>2</sup> For CLEARFIL™ PHOTO POSTERIOR

## Conversion of the Kuraray Color Code to the Vita™ Color Code

Kuraray Color Code	Color description	Shade	Vita™ Color Code
Enamel	Enamel		Enamel
HO	Hollywood Opaque (Bleach White)	Light	} A1
UL	Universal Light	Dark	
LO	Light Opaque	Opaque	
US	Universal Standard		} A2
UO	Universal Opaque	Opaque	
DY	Dark Yellow	Light	} A3
B	Brown	Dark	
DYO	Dark Yellow Opaque	Opaque	
G	Gray		A3.5
XL	Extra Light	Light	} B0.5, B1
L	Light	Dark	
U	Universal		B2
UY	Universal Yellow		B2.5
Y	Yellow		} B3
YO	Yellow Opaque	Opaque	
DYO	Dark Yellow Opaque	Opaque	B3.5
YB	Yellow Brown		} B4
YBO	Yellow Brown Opaque	Opaque	
DGO	Dark Gray Opaque	Opaque	C2
DG	Dark Gray		C3

## Note & Warranty

### Note

Please read carefully the relevant instructions for use before utilizing these products. CLEARFIL™, CLEARFIL MAJESTY™, PANA VIA™ and OXYGUARD™ are trademarks of the company Kuraray Medical Inc. Vita™ is a trademark of the company VITA Zahnfabrik. The color descriptions are based on the best comparison.

### Guarantee

All of the data contained here are based on actual measurements by Kuraray Medical Inc. All of the information shown here is given to the best of our knowledge, but without the assumption of any guarantees.

Kuraray Medical Inc. hereby declares that it will replace any products verified to be defective. Neither Kuraray Medical Inc. nor the distributor assume any liability for losses or damage, including direct, subsequent, and single losses, which result from the application or use or inability to use these products.

The user must make sure that the product is suitable for the intended use before using it; by using the product, the user assumes responsibility for any and all risks and obligations.



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**Orders and deliveries from qualified specialist outlets.  
Please contact our distributor in your country:**

Stamp:

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Title: Dental office/joint office Your Depot:\* \*Entry required

First name/Last name:\* Customer No.:

Address:\*

Zip code, city:\*

Phone:

Fax:

E-mail:

Stamp, date, signature:



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