

**kuraray**

*Noritake*



## PRODUCT CATALOG CLINICAL

BORN IN JAPAN

SHAPING THE FUTURE OF AESTHETICS

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# KURARAY NORITAKE DENTAL INC.

A century of serving mankind



## CLOSE TO YOUR NEEDS THROUGHOUT EUROPE



Symposia, Technical Trainings, manuals, IFU's, How-To-Use videos, color selection solutions, specialized appointed trainers throughout the European continent, a rich and vast academic network, papers originated from research in vitro and in vivo.

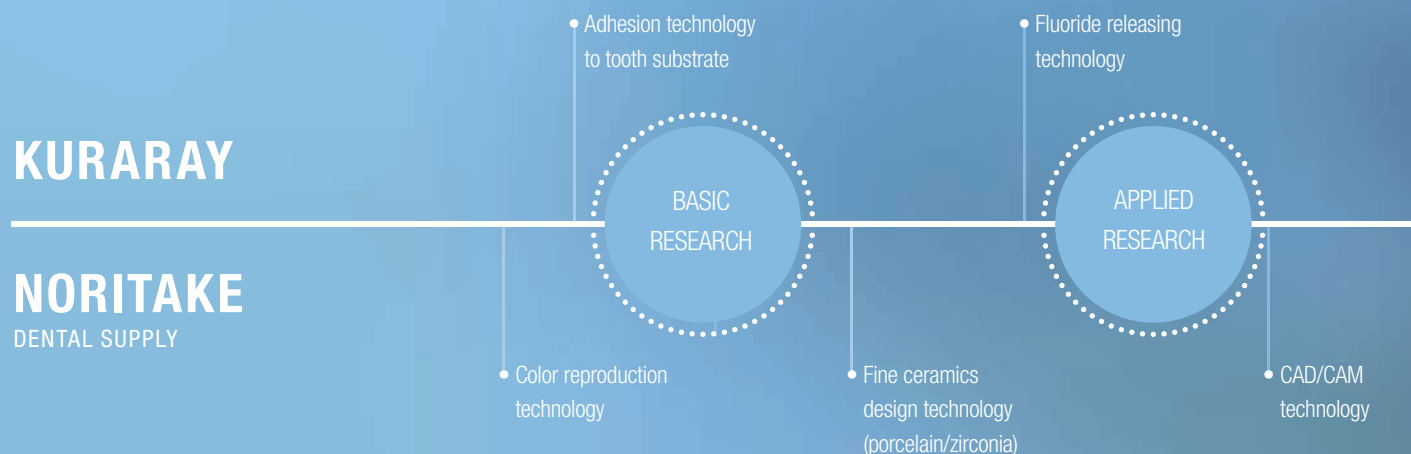
## SHAPING THE FUTURE OF ESTHETICS



- Innovator of next generation dental products
- Inventor of adhesive monomer MDP
- Adhesive first-rate standard: CLEARFIL™ and PANAVIA™
- World's first multi-layered zirconia: KATANA™

## RESEARCH & DEVELOPMENT

Dental Innovation track record of 40 years. More than 70 patents assigned since 2010.



## TAKING RESPONSIBILITY

Our processes are continuously improved for reducing impact on the environment.

A high standard of Quality control on all our production



To ensure safe products ISO13485



• Kuraray Noritake Dental Inc. is an affiliate of KURARAY CO., LTD. developing dental materials

- The business unit develops dental & medical materials
- 3 strategic bases covering Europe, America and China.
- 1 HQ in Japan



#### COMPLIMENTARY PRODUCT FAMILIES THAT RESTORE TEETH TO A NEAR NATURAL STATE



##### CHAIRSIDE

Bonding: CLEARFIL™

Cement: PANAVIA™

Composite Resin: CLEARFIL MAJESTY™

##### LABSIDE

Porcelain: CERABIEN™ ZR (CZR)

SUPER PORCELAIN EX-3

Zirconia: KATANA™

- Surface treatment technology for fine filler

- Dispersion and mixing technology of fine filler



- Fine ceramics production technology

- Easy-to-use powder production technology

- CAD/CAM advancement
- Non-metal alternative materials

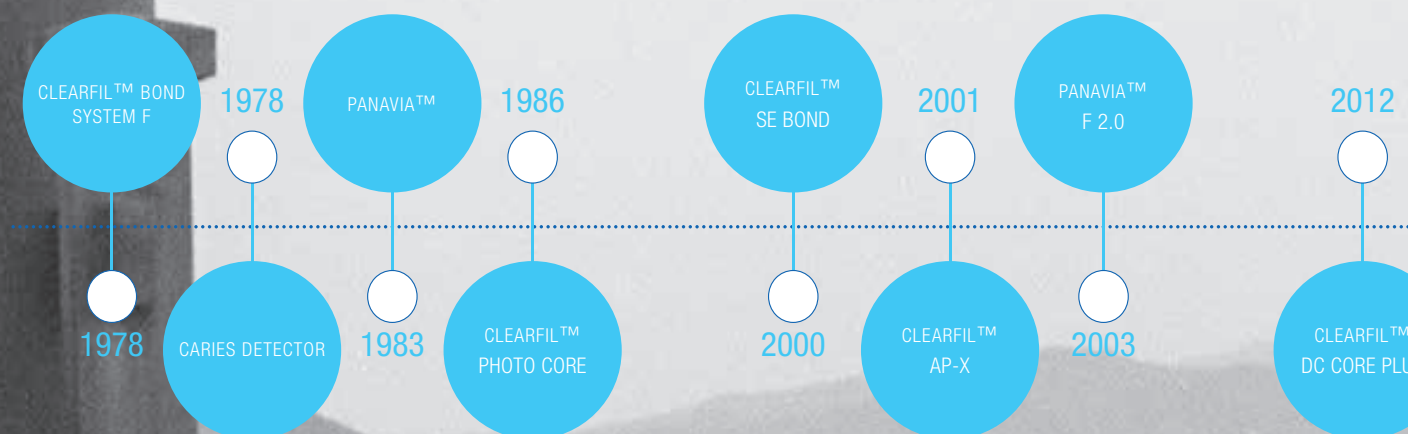


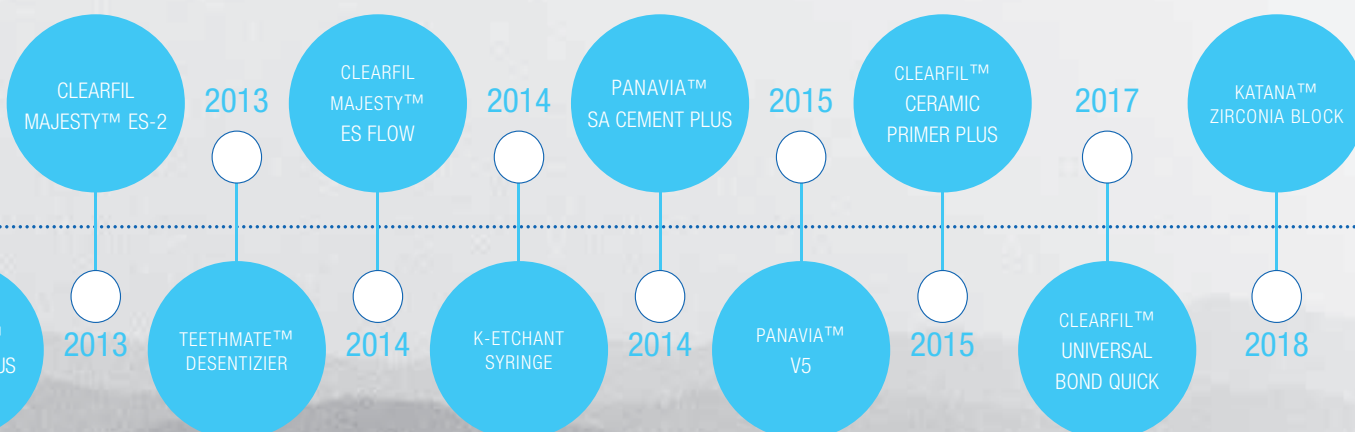
# KURARAY NORITAKE EUROPE

On a mission to create less complex dental procedures delivering natural beauty and lasting results.

## MILESTONES IN DENTISTRY

The great achievements that changed dentistry in the past 40 years all started within Kuraray, Japan.







## RESEARCH & DEVELOPMENT

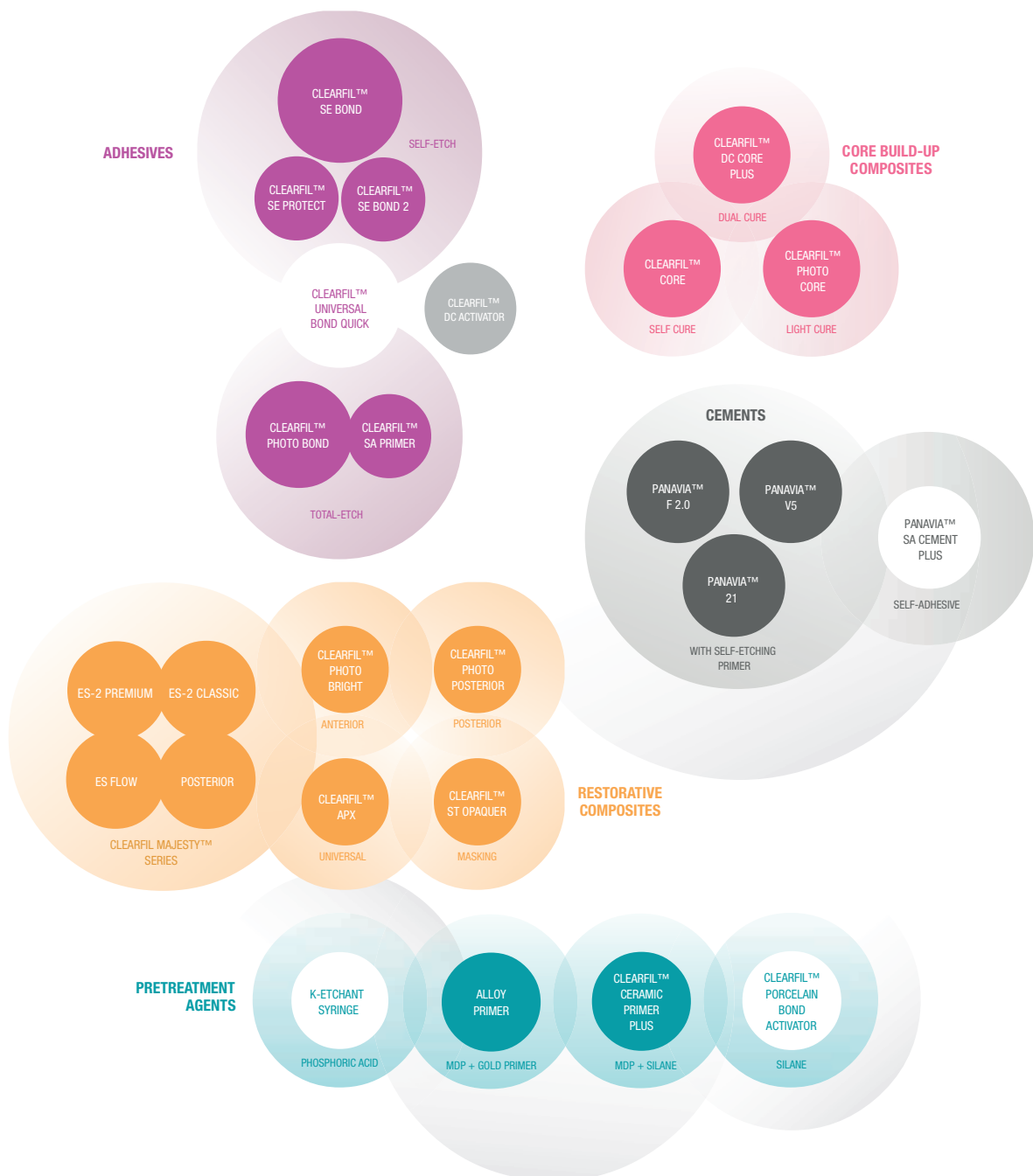
Kuraray began to develop dental products in the 1970s. Today we are recognized as an innovator in the research and development of dental products that simplify everyday dental procedures while delivering first-class, lasting results.

## MDP

Back in 1981 we invented MDP, the adhesive monomer which achieves a durable bonding with enamel, dentin, metal and metal oxides.

## EVIDENCE BASED

All our product developments are based on empirical support. And we try to go further, classifying evidence by only the strongest proof coming from clinical cases, practice based research and randomized controlled trials.

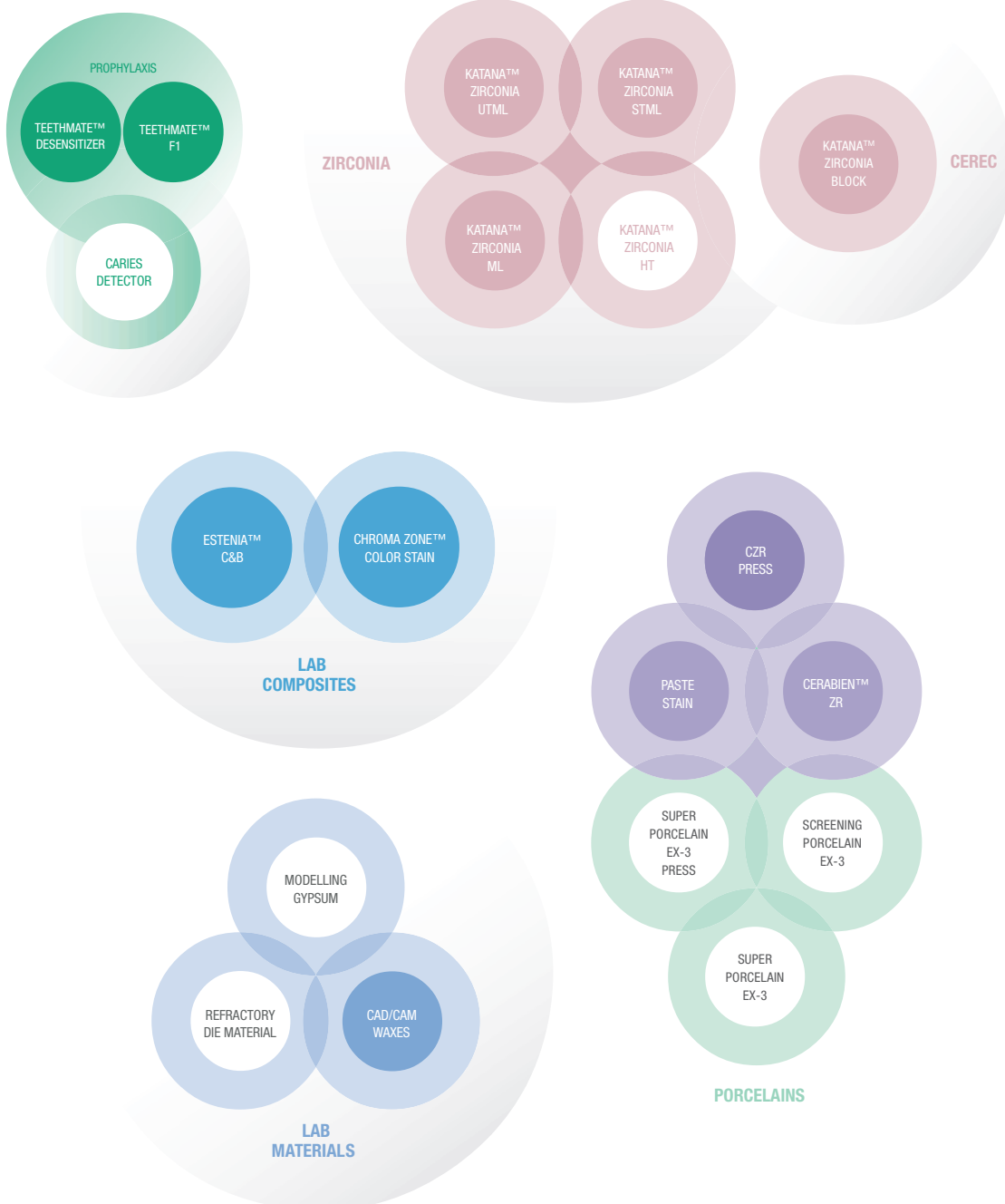


## HIGH TECH

Kuraray Inc., our mother, develops highly innovative products for many more fields of business besides dentistry. The portfolio ranges from synthetic plastics to fine chemicals and technology used for high-tech processes and finishing.

## CRAFTMANSHIP

Kuraray Noritake ensures that the many global dental talents can be consistent in their work by delivering a high standard of quality for our full product range.



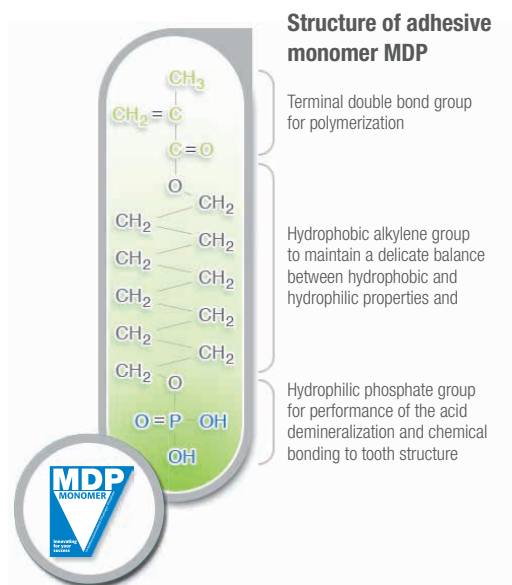
## CORE TECHNOLOGY OF KURARAY

### MDP MONOMER



### DESCRIPTION

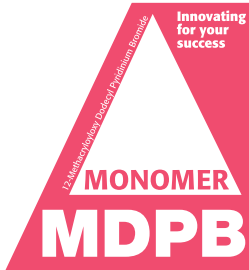
After Kuraray introduced the first adhesive monomer in dental history by inventing the phosphate monomer Phenyl-P in 1976, its molecular structure was improved in 1981 by creating a molecule with greater adhesive capability to the tooth structure and an affinity for metal. The result of this development 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.



Rapid bond technology which combines MDP Monomer with new hydrophilic amide monomers has been introduced to CLEARFIL™ Universal Bond Quick. The new hydrophilic amide monomers are able to penetrate into the wet dentin rapidly and MDP creates a strong chemical bond to hydroxyapatite. This special combination works together to deliver optimal stability and resistance to moisture for a lasting result.

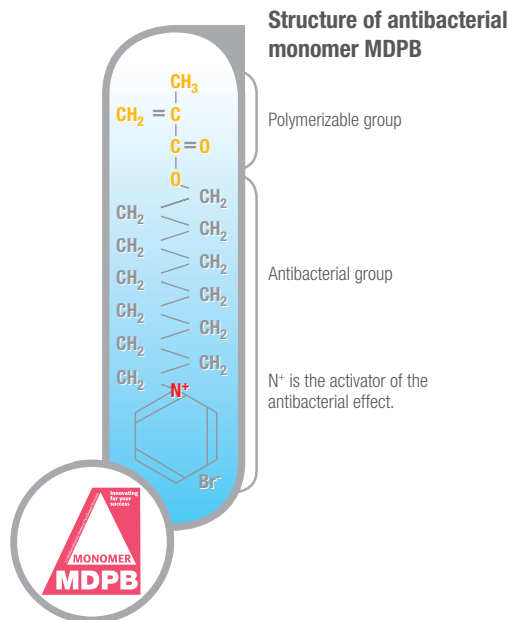


## MDPB MONOMER



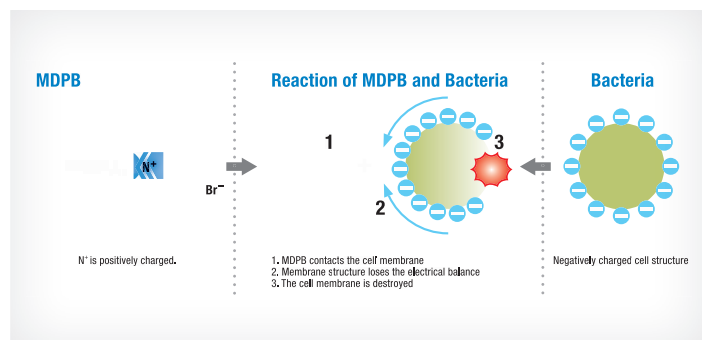
## ANTIBACTERIAL EFFECTS OF THE MDPB MONOMER

The primer of CLEARFIL™ SE PROTECT has antibacterial effects against bacteria by direct contact. This is possible thanks to the integrated functional MDPB monomer. The question “How does 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 to 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.



## 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.



## SELF-ETCH TECHNOLOGY

### TOTAL-ETCH VS. SELF-ETCH

#### THE ADHESIVE TECHNOLOGY – CORNERSTONE OF MODERN, MINIMALLY INVASIVE DENTISTRY.

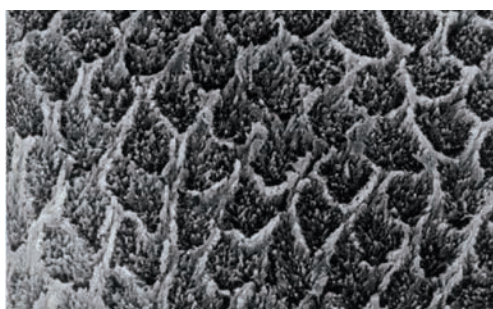
In 1978, Prof. T. Fusayama from the Tokyo Medical and Dental University was confronted with a technical problem. He had the idea of permanently filling cavities with resin materials as an esthetic alternative to amalgam. But in contrast to hydrophilic tooth hard structure, the composites displayed hydrophobic properties and were not capable of establishing a close bond. To get around this problem, he developed a new technique for dentin conditioning which would provide a surface suitable for the use of an adhesive. Going against the philosophy of the times, he etched both enamel and dentin with phosphoric acid. This preparation of the dentin removed the smear layer which appeared after the preparation, opened the dentin tubuli, and created the conditions for use of the following primer-adhesive system. In cooperation with the company Kuraray – at that time an industrial manufacturer of innovative special resin materials – the first total-etch bonding including an adhesive phosphate monomer for enamel and dentin, CLEARFIL™ BOND SYSTEM-F, was developed. While this system rapidly gained acceptance in Japan, dentin phosphoric acid etching was the subject of controversial discussions at the international level for a long time. It was not until the middle of the 1980s that it gained worldwide acceptance and has since been one of the standard procedures for multi-step adhesives.

The advantages of this technique are self-evident and have been confirmed over the course of time by numerous scientific studies. Besides the removal of the smear layer, there is a demineralization of the intertubular and peritubular dentin. Hydroxylapatite crystals from the collagen network are released and individual fibers are exposed. They are then coated by the hydrophilic monomers of the adhesive and permanently anchor themselves in the exposed network during the polymerization. Increased technique sensitivity of the total-etch system led to the development of the self-etching technique. Although these systems produce good results when used correctly, total-etch multi-step adhesives were regarded as highly technique-sensitive

in Japan due to the precision required for the work steps and times: excessive etching removed more minerals from the dentin than desired and exposed the collagen fibers to a depth which was greater than the following adhesive could penetrate. Excessive drying caused the exposed collagen fiber network to collapse and blocked the access of the adhesive to the dentin areas below. This led to lower adhesive strength, simultaneously sensitivities and biting pain.

The selection of the volatile solvent in the bonding systems also influenced the moisture of the dentin surface required for ideal results:

Since alcohol is lighter than water, alcohol-based systems require a dry surface, which means that there is a high risk of overdrying. Acetone-based adhesives, on the other hand, work best on a slightly moist surface because acetone is drawn into the tubuli through a moist surface. But since the definition of “slightly moist” is difficult to realize during actual work, the bonding results are worsened if the surface is either too dry or too moist.



Enamel surface after acid etch treatment with phosphoric acid (37%)

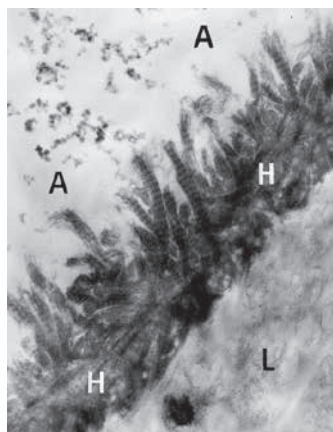
## DIRECT DESENSITIZATION AND CONDITIONING WITH WATER-BASED SELF-ETCHING ADHESIVES OF THE CLEARFIL™ SERIES

“CLEARFIL™ LINER BOND 2” was introduced by Kuraray at the beginning of the 1990s as the first self-etching adhesive. The objective was to eliminate the technique sensitivities caused by the total-etch technique and to develop a system which required fewer work steps, achieved permanently reproducible results, and at the same time could prevent sensitivities and biting pain for the patient. A water-based, self-etching primer was developed to avoid problems related to a separate etching technique or a defined surface moisture. This primer conditioned enamel and dentin in much the same way as phosphoric acid, but was not as aggressive and could be buffered in its effect by released calcium.

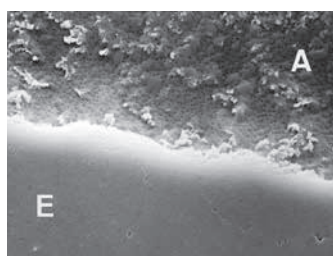
The slightly acidic pH was thus reduced further and raised to a neutral level, which allowed the primer to stay in the cavity. This made it possible to avoid complicated work steps such as rinsing, drying, changing cotton rolls as well as the risks of excessive etching and overdrying. The following adhesive without any volatile solvents could now penetrate the dentin, closing the dentin tubule and contributing after the polymerization to prevention of post-operative sensitivity. The development of the MDP adhesive monomer has improved further the chemical bond properties of the self-etching Kuraray adhesive. The TEM images show that the collagen fibrils in the thin hybrid layers have not completely lost the hydroxyapatite, in contrast to the total-etch technique. The remaining hydroxyapatite directly bonds chemically with phosphate groups of Kuraray's own MDP monomer. (TEM Image 1)

A similar effect can also be observed in the enamel. Although the enamel structure is only slightly affected, no fissure formation is determined between the adhesive, composite, and enamel. Although the adhesive strength without prior enamel etching was questioned when this technique was first introduced, various studies worldwide have since proven the equality of the MDP-based self-etching systems.

Due to the company's lead in research in the field of adhesive and resin technology, Kuraray Noritake Dental's products achieve outstanding rankings in clinical in-vivo and in-vitro examinations. “REALITY”, an independent American test institute, certified that CLEARFIL™ SE BOND caused absolutely no postoperative complaints (Issue 118, February 2000).



1. TEM cross-section image:  
Dentin CLEARFIL™ SE BOND  
(Inoue, van Meerbeek)



2. TEM cross-section image:  
Enamel CLEARFIL™ SE BOND  
(Inoue, van Meerbeek)

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## COLOR SHADES

Abbreviations of color shades

Conversion of the Vita™ Color Code

Conversion of the Kuraray Noritake Dental

Color Code to the Vita™ Color Code








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# ADHESIVES - OVERVIEW

Self-Etch		Classification	Direct restoration	Cavity Sealing	Desensitization
<b>CLEARFIL™ Universal Bond Quick</b>		1-step system	●	● 1)	●
<b>CLEARFIL™ SE BOND</b>		2-step system	●	● 1)	●
<b>CLEARFIL™ SE BOND 2</b>		2-step system	●	● 1)	●
<b>CLEARFIL™ S<sup>3</sup> BOND PLUS</b>		1-step system	●	● 1)	
<b>Antibacterial Therapy</b>					
<b>CLEARFIL™ SE Protect</b>		2-step system	●	● 1)	●
<b>Total-Etch</b>					
<b>CLEARFIL™ Universal Bond Quick</b>		1-step system	●	● 1)	●
<b>CLEARFIL™ PHOTO BOND</b>		2-step system 6)	●		



Light-curing	Self-curing	Curing time (light)	Combination with lightcuring composites	Combination with selfcuring composites	Page number
●		10 sec.	●	● 2)	16
●		10 sec.	●		18
●		10 sec.	●	● 3)	20
●		10 sec.	●	● 4)	22
●		10 sec.	●	● 3)	28
●		10 sec.	●	● 2)	16
●	● 5)	10 sec.	●	●	26

1) After curing, the cured adhesive should be covered by a composite (e.g. CLEARFIL MAJESTY™ ES Flow).

2) With CLEARFIL™ DC Activator (not necessary for combination use with CLEARFIL™ DC CORE PLUS or PANAVIA™ SA Cement Plus).

3) With CLEARFIL™ DC Activator.

4) Combination use with CLEARFIL™ DC CORE PLUS only.

5) Self-curing properties.

6) With CLEARFIL™ SA PRIMER

## CLEARFIL™ Universal Bond Quick

### NO WAITING, NO EXTENSIVE RUBBING, NO MULTIPLE LAYERS

The innovative new universal bonding that works instantly ensuring a consistent and lasting result for all restorative procedures - in one simple quick step. Just apply and proceed.

unlike traditional bonding agents that require waiting time, extensive rubbing and multiple layers in order to deliver an optimum result, CLEARFIL™ Universal Bond Quick delivers the same consistent, predictable results every time. It does not only save the dentist valuable time, it eliminates risk of error with the result that all restorative procedures are carried out to the same exceptionally high standards. The product reliably bonds all direct restorations, core build-ups and even indirect restorations and repairs. Use it the way you want: self-etch, selective-etch or total-etch. But whichever way, CLEARFIL™ Universal Bond Quick delivers the same uniform results without the need to wait.



## INDICATIONS

- Direct restorations using light-cured composite resin
- Cavity sealing as a pretreatment for indirect restorations
- Treatment of exposed root surfaces
- Treatment of hypersensitive teeth
- Intraoral repairs of fractured restorations
- Post cementation and core build-ups
- Cementation of indirect restorations

## BENEFITS

- Procedural freedom
- Wide indication range
- Thin film thickness
- Rapid bond technology
- Predictable results
- High bond strength

## PRODUCT RANGE



#3571-EU

### Bottle Standard Kit

Content: 1 Bottle (5 ml), K-ETCHANT Syringe (3 ml), Applicator Brush (x 50 pcs), Needle Tip (x 20 pcs), Mixing Dish, Light Blocking Plate

#3574-EU

### Bottle Value Pack

Content: 3 bottles (5 ml)

#3577-EU

### Unit Dose Standard Pack

Content: Unit Dose (50 pcs x 0.1 ml), K-ETCHANT Syringe (3 ml), Applicator Brush (x 50 pcs), Needle Tip (x 20 pcs)

### REFILL



#3572-EU

### Bond bottle

1 bottle (5 ml)

## PRODUCT RECOMMENDATIONS



#3250-EU

### CLEARFIL™ DC Activator

1 bottle (4 ml)



#1210-EU

### TEETHMATE™ DESENSITIZER Set

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



#3252-EU

### K-ETCHANT Syringe

Content: 2 K-ETCHANT Syringes (3 ml), 40 needle tips



### 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 ml / 0.9 ml



### CLEARFIL MAJESTY™ ES Flow

#### (color selection)

1 syringe: 2.7 g / 1.5 ml



### CLEARFIL™ DC CORE PLUS

#### & Quick Kit

#3580-EU Dentin

#3581-EU White

Content: CLEARFIL™ DC CORE PLUS

(White or Dentin): 1 syringe (9 ml); CLEARFIL™

Universal Bond Quick: 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™ SE BOND

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.



## 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

## BENEFITS

- 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

## PRODUCT RANGE



#1970-EU

### Kit

Content: 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 (x50 pcs)**

## PRODUCT RECOMMENDATIONS



#3637-EU

### CLEARFIL™ CERAMIC PRIMER PLUS (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™ ES Flow (color selection)

1 syringe: 2.7 g/1.5 ml



#220-EU

### CARIES DETECTOR (6 ml)

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## CLEARFIL™ SE BOND 2

### THE GOLD STANDARD MADE FUTURE PROOF

A two-step self-etch universal adhesive.

With CLEARFIL™ SE BOND 2, you can bond various core build-up and (in)direct restorations. Only use the self-etch primer with the bond to create your direct restorations. For bonding indirect and core build-up restorations, you just mix it with our CLEARFIL™ DC Activator. Thanks to its photo initiators, it shows about 21% higher dentin bond strength compared to gold standard CLEARFIL™ SE BOND.

Curious about how this is possible? It's all about the right mix of Kuraray Noritake Dental's proven MDP and Curing technologies to give you long-lasting results. And that's not it. The unit doses let you enjoy this self-etch adhesive even more.





## 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

## BENEFITS

- 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

## PRODUCT RANGE



#3270-EU

### **CLEARFIL™ SE BOND 2 Kit**

Content: Bond (5ml), Primer (6ml), 100 applicator brushes (fine), 1 mixing dish, 1 light blocking plate, 1 outer case



#3286-EU

### **CLEARFIL™ SE BOND 2 Unit Dose Standard Pack**

Content: 50 tips (0.1ml / tip), each for Bond and Primer, 100 applicator brushes (fine)

#3272-EU

### **Bottle Value Pack**

3 Bond (5ml/bottle), 3 Primer (6ml/bottle)

### **REFILL**



#3281-EU

### **Refill bottle** 1 bottle (5ml)



#3282-EU

### **Refill Primer** 1 bottle (6ml)

## PRODUCT RECOMMENDATIONS



#3637-EU

### **CLEARFIL™ CERAMIC PRIMER PLUS (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™ ES Flow (color selection)**

1 syringe: 2.7 g/1.5 ml



#220-EU

### **CRIES DETECTOR (6 ml)**

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

Are you looking for a one-step adhesive that ensures “Speed – Simplicity – Strength”?

Then CLEARFIL™ S<sup>3</sup> BOND PLUS, Kuraray Noritake Dental's time-saving adhesive for fast and simple application, is the ideal solution for you.

Thanks to its short application time and very simple procedure compared with other recent one-step products CLEARFIL™ S<sup>3</sup> BOND PLUS allows a high error tolerance while creating excellent bond strength to enamel and dentin.

Furthermore CLEARFIL™ S<sup>3</sup> BOND PLUS ensures a stable interface between tooth and composite resin due to Kuraray Noritake Dental's new high performance initiator for light-curing, the original adhesive monomer MDP Molecular Dispersion Technology.

**CLEARFIL™ S<sup>3</sup> BOND PLUS – it's your choice for a fast and easy bond!**



## 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 resins
- 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

## BENEFITS

- Quick and time-saving with only one single application step: no shaking, no mixing, no rubbing, no multiple application
- Easy to use for optimal results
- Stable performance thanks to Kuraray's adhesive monomer MDP, proven since more than 35 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

## PRODUCT RANGE

#2890-EU

### Set

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

#2893-EU

### Value Kit

Content: 3 bottles (4 ml each)

### REFILL

#2892-EU

### Bond

Content: 1 bottle (4 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: 1.8g/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™ ES Flow (color selection)

1 syringe: 2.7 g / 1.5 ml

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- Akimoto, N., Hanabusa, M., Miyauchi, T., Tokiwa, T., Momoi, Y.: Influence of Dentin Surface Conditions on Bond-strength with 1-bottle Systems. 89th 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. 89th 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. 89th IADR, 2011 Abstract #1090, San Diego USA.

## CLEARFIL™ LINER BOND 2V

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 bond 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.



## 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

## BENEFITS

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

## PRODUCT RANGE

#1921-EU

### Kit

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

### REFILL

#1930-EU

**Bond: Liquid A (5 ml)**

#1931-EU

**Bond: Liquid B (3 ml)**

#1943-EU

**Primer: Liquid A (6 ml)**

#1944-EU

**Primer: Liquid B (6 ml)**

## PRODUCT RECOMMENDATIONS



#220-EU

**CARIES DETECTOR (6 ml)**



**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

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# CLEARFIL™ PHOTO BOND

Clearfil™ Photo Bond is a dual-curing adhesive for enamel and dentin based on the total-etch technique. The product has been developed for use with light-curing and dual-curing restoration materials. In addition, direct adhesion to ceramics can be achieved by mixing with Clearfil™ Porcelain Bond Activator.





## BENEFITS

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

## PRODUCT RANGE



#075-EU

### Kit

Content: Catalyst (6 ml), Universal (6 ml)

### REFILL

#073-EU

### Catalyst (6 ml)

#074-EU

### Universal (6 ml)

## PRODUCT RECOMMENDATIONS



#013-EU

### K-ETCHANT GEL: 6 ml

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.



#066-EU

### Clearfil™ SA Primer: 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.

## 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™ SE Protect

With the new and versatile CLEARFIL™ SE Protect this antibacterial adhesive is made future proof. It's the next version of the world's first self-etching adhesive with a reliable antibacterial effect. Thanks to the unique anti-bacterial monomer MDPB, CLEARFIL SE Protect exhibits an "Antibacterial Cavity Cleansing Effect".

CLEARFIL™ SE Protect is now a self-etch universal adhesive. Just use the self-etch primer with the bond to create your direct restorations. For bonding indirect and core build-up restorations you just mix it with our all-new CLEARFIL™ DC Activator. Curious about how this is possible? It's all about the right mix of Kuraray Noritake Dental's proven MDP and antibacterial MDPB technologies to give you long-lasting results.



## 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 with light-cured composite resin
- 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

## BENEFITS

- Virtually no post-operative sensitivity
- The primer contains antibacterial monomer (MDPB)
- Tried and proven 2-step self-etching bonding system
- Fast and simple use
- High bond strength to enamel and dentin
- Antibacterial cleansing effect
- Fluoride release

## PRODUCT RANGE



#2870-EU

### Kit

Content: 1 Primer: 6 ml, 1 Bond: 5 ml, 50 x 2 Disposable brush tips (white), 1 Brush tip handle (white), 1 Brush tip handle (black), 1 Mixing dish, 1 Light blocking plate, 1 Outer case

#2872-EU

### Value Pack

Content: 3 Primer (6 ml), 3 Bond (5 ml)

### REFILL



#2881-EU

### Bond (5 ml)



#2882-EU

### Primer (6 ml)

#968-EU

### CLEARFIL™ brush tips

pack of 50 tips

## PRODUCT RECOMMENDATIONS



#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™ ES Flow (color selection)

1 syringe: 2.7 g / 1.5 ml

# RESIN CEMENTS - OVERVIEW

		Indications						
		Type	Mixing	Crowns/ bridges	Inlays/ onlays	Cores/ posts	Adhesion bridges	Veneers
<b>PANAVIA™ V5</b>		self-etching primer / resin cement	auto mixing	●	●	●	●	●
<b>PANAVIA™ SA Cement Plus</b>		self-adhesive resin cement	auto mixing	●	●	●	●	
<b>PANAVIA™ F 2.0</b>		self-etching primer / resin cement	hand mixing	●	●	●	●	●

Adhesion to						Curing systems			Page number
Enamel	Dentin	Metal-oxide ceramics	Silica-based ceramics	Precious metal	Non-Precious metal	Curing type	With Oxyguard	Fluoride release	
● 1)	● 1)	● 3)	● 3)	● 3)*	● 3)	dual-curing		●	32
●	●	●	● 3)	●	●	dual-curing		●	34
● 2)	● 2)	●	● 3)	● 4)	●	dual-curing	●	●	36

1) with Tooth Primer

2) with ED PRIMER II

3) with CLEARFIL™ CERAMIC PRIMER PLUS

4) with ALLOY PRIMER

\* For optimal performance, ALLOY PRIMER can be used

### PANAVIA™ V5

One cement, all indications, predictable procedure. That is Panavia V5. PANAVIA™ V5 is our strongest cement ever developed. And with five shades, our most esthetic one too. This makes a totally new kind of dentistry possible, where you can be confident during cementation.

Prime the tooth. Roughen and prime the prosthetic. Apply your cement. That's it. There is no better way to durably cement your crown, single-wing cantilever bridge, core build-up and veneer. And if you work in a lab? Then you can be sure it's the most reliable way cement your implant abutments too. See, with just one prime procedure you cover all cement indications. And your patients? They will surely be impressed by the beautiful results of your prosthetic treatment.



[www.panaviaV5guide.eu](http://www.panaviaV5guide.eu)

## INDICATIONS

- Cementation of crowns, bridges, inlays and onlays
- Cementation of veneers
- Cementation of adhesion bridges and splints
- Cementation of prosthetic restorations on implant abutments and frames
- Cementation of posts and cores
- Amalgam bonding

## BENEFITS

- Covering all cement indications including adhesion bridges and veneers
- Automix application
- Available in five beautiful shades
- Easy application
- Low film thickness
- Easy clean-up of excess cement
- Improved Endo tip for easier root canal access
- Reliable marginal sealing
- High bond strength
- High mechanical stability
- Fluoride releasing
- Color stable

## PRODUCT RECOMMENDATIONS



#3635-EU  
**PANAIA™ V5 Tooth Primer**  
1 bottle (4 ml)



#3637-EU  
**CLEARFIL™ CERAMIC PRIMER PLUS**  
1 bottle (4 ml)



#3252-EU  
**K-ETCHANT Syringe**  
Content 2 K-ETCHANT Syringes (3 ml),  
40 needle tips

## PRODUCT RANGE



**#3600-EU PANAIA™ V5 Professional Kit**  
Content: 1 Syringe 2.4 ml (Universal (A2)),  
1 Syringe 2.4 ml (Clear), 1 Syringe 2.4 ml (Brown (A4)), 1 Syringe 2.4 ml (White), 1 Syringe 2.4 ml (Opaque), 1 Try-in Pastes 1.8 ml (Universal (A2)),  
1 Try-in Pastes 1.8 ml (Clear), 1 Try-in Pastes 1.8 ml (Brown (A4)), 1 Try-in Pastes 1.8 ml (White), 1 Try-in Pastes 1.8 ml (Opaque), 1 Tooth Primer 2 ml, 1 CLEARFIL™ CERAMIC PRIMER PLUS 2 ml, 1 K-ETCHANT Syringe 3 ml, 30 pcs. Mixing tip, 10 pcs. Endo tip, 50 pcs. Applicator brush (fine <silver>), 1 Mixing dish, 20 pcs. Needle tip



**PANAIA™ V5 Standard Kit**  
#3601-EU Universal (A2)  
#3602-EU Clear  
Content: 1 Syringe 4.6 ml, 1 Tooth Primer 2 ml, 1 CLEARFIL™ CERAMIC PRIMER PLUS 2 ml, 1 K-ETCHANT Syringe 3 ml, 15 pcs. Mixing tip, 5 pcs. Endo tip, 50 pcs. Applicator brush (fine <silver>), 1 Mixing dish, 20 pcs. Needle tip



**PANAIA™ V5 Introductory Kit**  
#3604-EU Universal (A2)  
#3605-EU Clear  
Content: 1 Syringe 2.4 ml, 1 Tooth Primer 2 ml, 1 CLEARFIL™ CERAMIC PRIMER PLUS 2 ml, 10 pcs. Mixing tip, 50 pcs. Applicator brush (fine <silver>), 1 Mixing dish  
#3626-EU Mixing tip (20 Pieces)  
#3629-EU Endo tip (S) (20 Pieces)



**PANAIA™ V5 Paste**  
#3611-EU Universal (A2)  
#3612-EU Clear  
#3613-EU Brown (A4)  
#3614-EU White  
#3615-EU Opaque  
Content 1 Syringe 4.6 ml, 20 pcs. Mixing tip



**PANAIA™ V5 Try-in Paste**  
#3621-EU Universal (A2)  
#3622-EU Clear  
#3623-EU Brown (A4)  
#3624-EU White  
#3625-EU Opaque  
Content: Each 1 Try-in Paste 1.8 ml



# PANAVIA™ SA Cement Plus

Imagine one self-adhesive composite cement for almost all your cementation needs. PANAVIA™ SA Cement Plus simplifies it all.

The all-new PANAVIA™ SA Cement Plus Automix is now stronger and smarter than ever before. The dentin adhesive performance has been improved about 20 % compared to PANAVIA™ SA Cement Automix<sup>1</sup>. And for the first time ever, it is now possible to store your cement outside of the refrigerator<sup>2</sup>. Thanks to the increased bond strength of PANAVIA™ SA Cement Plus, you can now cement adhesion bridges too. And with the extended color range, including a transparent shade, your restorations will provide beautiful natural results.

What else is so smart about PANAVIA™ SA Cement Plus Automix? The handling is a breeze. You need only about half as much pressure to apply your cement. Removing the excess cement is as easy as before.

<sup>1</sup> Source: Kuraray Noritake Dental Inc.

<sup>2</sup> Below 25 °C



## INDICATIONS

- Cementation of crowns, bridges, inlays and onlays
- Cementation of prosthetic restorations on implant abutments and frames
- Cementation of adhesion bridges and splints
- Cementation of posts and cores
- Amalgam bonding

## BENEFITS

- Wide indication coverage including adhesion bridges
- Easy storage at room temperature\*
- Easy application with little pressure
- Improved Endo tip for easier root canal access
- Automix and Handmix delivery

\* Below 25 °C

## PRODUCT RANGE



#3382-EU

**PANA VIA™ SA Cement Plus  
Automix (Universal (A2))**

Content: 1 Syringe, Paste A and B: 8.0 g (4.6 ml), 20 Mixing tips

#3385-EU

**PANA VIA™ SA Cement Plus Automix  
Value Pack (Universal (A2))**

Content: 3 Syringes, Paste A and B: 8.0 g (4.6 ml), 40 Mixing tips, 10 Endo tips



#3383-EU

**PANA VIA™ SA Cement Plus  
Automix (White)**

Content: 1 Syringe, Paste A and B: 8.0 g (4.6 ml), 20 Mixing tips

#3386-EU

**PANA VIA™ SA Cement Plus Automix  
Value Pack (White)**

Content: 3 Syringes, Paste A and B: 8.0 g (4.6 ml), 40 Mixing tips, 10 Endo tips



#3384-EU

**PANA VIA™ SA Cement Plus  
Automix (Translucent)**

Content: 1 Syringe, Paste A and B: 8.0 g (4.6 ml), 20 Mixing tips

#3387-EU

**PANA VIA™ SA Cement Plus Automix  
Value Pack (Translucent)**

Content: 3 Syringes, Paste A and B: 8.0 g (4.6 ml), 40 Mixing tips, 10 Endo tips

## ACCESSORIES

#3391-EU

**PANA VIA™ SA Cement Plus Automix  
Mixing tip (20 Pieces)**

#3392-EU

**PANA VIA™ SA Cement Plus Automix  
Endo tip (20 Pieces)**

# RESIN CEMENTS

DUAL-CURING

## PANAVIA™ F 2.0 SINCE 2003

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. 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 starts at direct contact 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.



## 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

## BENEFITS

- 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 full 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

## PRODUCT RECOMMENDATIONS



#064-EU  
**ALLOY PRIMER: 5 ml**



#3637-EU  
**CLEARFIL™ CERAMIC PRIMER PLUS**

## PRODUCT RANGE

### Full 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;

### 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

### ACCESSORIES

#490-EU

**Oxyguard™ II: 6 ml**

#491-EU

**ED Primer II Liquid A: 4 ml**

#492-EU

**ED Primer II Liquid B: 4 ml**

#493-EU

**Panavia™ F 2.0 A Paste: 5.0 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)**

#496-EU

**Panavia™ F 2.0 B Paste (Opaque): 4.6 g (2.3 ml)**

#497-EU

**Panavia™ F 2.0 B Paste (Light): 4.6 g (2.3 ml)**














#917-EU

**Oxyguard™ II: Disposable nozzle: 20 pcs.**

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- 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.
- Ozturk, N., Aykent, F.: Dentin bond strengths of two ceramic inlay systems after cementation with three different techniques and one bonding system. J-Prosthet-Dent. 2003 Mar; 89(3): 275-81.
- 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.

# RESTORATIVE COMPOSITES - OVERVIEW

		 Class I	 Class II	 Class III	 Class IV	 Class V
CLEARFIL MAJESTY™ ES-2		●	●	●	●	●
CLEARFIL MAJESTY™ ES Flow		●	●	●	●	●
CLEARFIL MAJESTY™ Esthetic		●	●	●	●	●
CLEARFIL MAJESTY™ Posterior		●	●	●	●	( )
CLEARFIL MAJESTY™ Flow		●	●	●	●	●
CLEARFIL™ AP-X		●	●	●	●	●
CLEARFIL™ PHOTO Bright				●	●	●
CLEARFIL™ PHOTO Posterior		●	●	●	●	

( ) : possible

Light-curing	Radiopaque	Amount of shades	Page number
●	●	Classic shades: 18 Premium shades: 2 x 9	40
●	●	12	42
●	●	Standard shades: 9, Complementary shades: 8	44
●	●	6	46
●	●	9	48
●	●	14	50
●		18	52
●	●	6	54

# CLEARFIL MAJESTY™ ES-2

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 dual-shade technique. The two systems can cover almost any restorative case in daily practice.

Kuraray Noritake Dental 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.



## INDICATIONS

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

## BENEFITS

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

### Syringe Refill

#### CLASSIC

#### 3.6 g / 2.0 ml

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

### PREMIUM

#### 3.6 g / 2.0 ml

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

### PLT Refill

#### CLASSIC

#### 20 tips x 0.25 g

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

### PREMIUM

#### 10 tips x 0.25 g

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

## PRODUCT RANGE



#3010-EU

### Syringe Professional Kit

Content 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

Content 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

Content Classic A2, Premium A2D, A2E: 1 syringe per shade (1.2 g / 0.7 ml)

#3102-EU

### PLT Introductory Kit

Content 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

Content: A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, XW, W



## PRODUCT RECOMMENDATIONS



#3571-EU

### CLEARFIL™

#### Universal Bond Quick Kit



#2890-EU

### CLEARFIL™ S³ BOND PLUS Set



#1970 EU

### CLEARFIL™ SE BOND Kit



## RESTORATIVE COMPOSITES

FLOWABLE COMPOSITE, LIGHT-CURING

# CLEARFIL MAJESTY™ ES Flow

CLEARFIL MAJESTY™ ES Flow is an universal flowable composite. Thanks to Kuraray Noritake Dental's Silane technology millions of fillers now fit into the composite enabling beautiful and also durable restorations. The product's esthetical and physical properties make it ideal for both, anterior and posterior restorations.

An excellent polishability in combination with an ideal color adaptation results instantly in a natural enamel gloss. Polishing near the gingiva or proximal areas is done in seconds. And with the new color range XW to KA6 plus the new dentin colors A2D and A3D nature's variation is restored easily. Also the consistency is improved. The composite just stays where it belongs. And with a flexural strength of 150 MPa CLEARFIL MAJESTY™ ES Flow is so strong that even Class I and II restorations can be created.



Rated the #1 Flowable Composite by REALITY 2016



## INDICATIONS

- Direct restorations for all cavity classes (e.g. root surface caries, v-shape defects), cervical lesions, tooth wear, and tooth erosion
- Cavity base / liner
- Correction of tooth position and tooth shape (e.g. diastema closure, tooth malformation)
- Intraoral repairs of fractured restorations

## BENEFITS

- Universal flowable composite
- Enamel gloss
- Excellent and fast polishability
- Ideal color adaptation
- Wide color range including dentin colors
- Wide indication range including even Class I and II
- High mechanical strength
- Esthetic and durable restorations



## PRODUCT RANGE

### Syringes

#3301-EU	A1	(2.7 g / 1.5 ml)
#3302-EU	A2	(2.7 g / 1.5 ml)
#3303-EU	A3	(2.7 g / 1.5 ml)
#3304-EU	A3.5	(2.7 g / 1.5 ml)
#3305-EU	A4	(2.7 g / 1.5 ml)
#3306-EU	KA6	(2.7 g / 1.5 ml)
#3307-EU	B1	(2.7 g / 1.5 ml)
#3308-EU	B2	(2.7 g / 1.5 ml)
#3309-EU	XW	(2.7 g / 1.5 ml)
#3310-EU	A2D	(2.7 g / 1.5 ml)
#3311-EU	A3D	(2.7 g / 1.5 ml)
#3312-EU	W	(2.7 g / 1.5 ml)
15 needle tips per syringe pack		



#3331-EU

**Needle tips: 20 tips**

### SHADE GUIDE



#3000-EU

**Shade guide, all shades**

#3001-EU

**Shade guide compact**

Content: A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, XW, W

## PRODUCT RECOMMENDATIONS



#1970-EU

**CLEARFIL™ SE BOND Kit**



#3571-EU

**CLEARFIL™ Universal Bond Quick Kit**

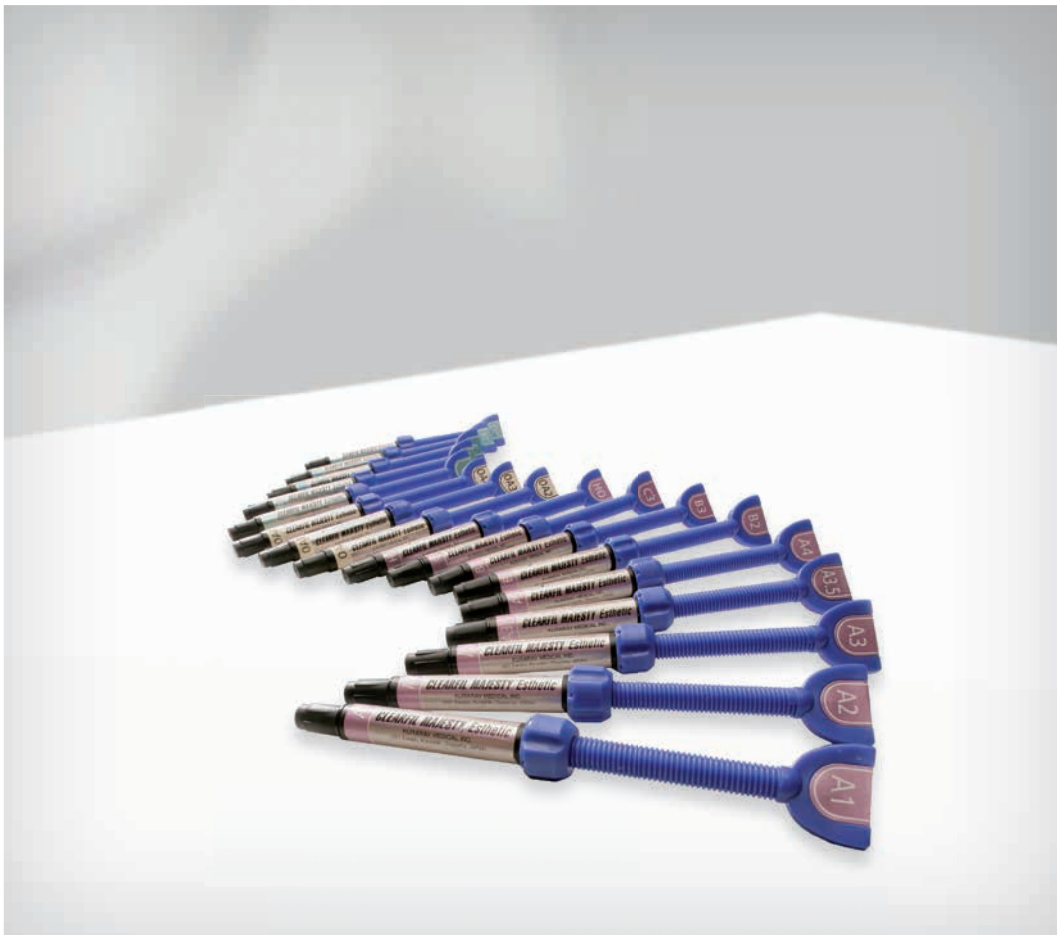


#2890-EU

**CLEARFIL™ S<sup>3</sup> BOND PLUS Set**

# CLEARFIL MAJESTY™ ESTHETIC

CLEARFIL MAJESTY™ Esthetic is a light-curing, radiopaque composite resin, especially for anterior restorations. It contains an organic filler which offers 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 light diffusion properties 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.



## 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

## BENEFITS

- 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

## PRODUCT RANGE

### 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 H0 (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 RECOMMENDATIONS



#3270-EU  
**CLEARFIL™ SE BOND 2 Kit**



#3571-EU  
**CLEARFIL™ Universal Bond Quick Kit**

# CLEARFIL MAJESTY™ Posterior

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.



## 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/composite resin

## BENEFITS

- 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

## PRODUCT RANGE

### 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)

### 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



#1970-EU

**CLEARFIL™ SE BOND Kit**



#3571-EU

**CLEARFIL™ Universal Bond Quick 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 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 %Al) and 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.



## 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

## BENEFITS

- 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

## PRODUCT RANGE

### 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



#1970-EU

**CLEARFIL™ SE BOND Kit**



#3571-EU

**CLEARFIL™ Universal Bond Quick Kit**

## BIBLIOGRAPHY

- 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.



## RESTORATIVE COMPOSITES

UNIVERSAL COMPOSITE, LIGHT-CURING

# CLEARFIL™ AP-X

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 be polished easily and makes layering more 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

## BENEFITS

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

## 5 CONVINCING ADVANTAGES OF AP-X

### 1. High wear resistance

CLEARFIL™ AP-X is a micro-hybrid composite heavily 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.

## PRODUCT RANGE

### Color shades available in syringes (4.6g/2ml)

#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. Easy handling

With a special non-sticky formula, CLEARFIL™ AP-X does not stick to any instruments or matrix. On the one hand the material offers convenient adaptation towards additional composite layers 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.

## RESTORATIVE COMPOSITES

ANTERIOR COMPOSITE, LIGHT-CURING

# CLEARFIL™ PHOTO BRIGHT

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.



## INDICATIONS

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

## BENEFITS

- 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

## PRODUCT RANGE

### 1 syringe: 3.4 g/2.0 ml

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

#2840-EU

### Shade guide

### COLOR CODE

See Page 106 for definition.

## RESTORATIVE COMPOSITES

POSTERIOR COMPOSITE, LIGHT-CURING

### CLEARFIL™ PHOTO POSTERIOR

CLEARFIL™ PHOTO POSTERIOR is a light-curing radio-paque 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.



## INDICATIONS

- Posterior restorations (classes I, II and V)

## BENEFITS

- High strength and durability
- High wear resistance
- Radiopaque
- Easy handling
- Smoothly polishable surface

## PRODUCT RANGE

### Color shades available in syringes (4.7g/2ml)

#561-EU US  
#562-EU UY  
#563-EU UL  
#564-EU G  
#565-EU B  
#567-EU XL

### COLOR CODE

See Page 106 for definition.

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## BIBLIOGRAPHY

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

## RESTORATIVE COMPOSITES

OPAQUE COMPOSITE, LIGHT-CURING

### CLEARFIL™ ST OPAQUER

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



## INDICATIONS

- Masking of 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

## BENEFITS

- High opacity
- Immediate coverage of metal by first coat

## PRODUCT RANGE

#636-EU L

**1 syringe: 4.0 g**

#637-EU US

**1 syringe: 4.0 g**

### COLOR CODE

See Page 106 for definition.

## PRODUCT RECOMMENDATIONS



#064-EU

### ALLOY PRIMER: 5 ml

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.



#1971-EU





### Clearfil™ Repair

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.



# CORE BUILD-UP MATERIALS - OVERVIEW

		Core build-up	Post cementation	Self-curing	Light-curing
CLEARFIL™ DC CORE PLUS		●	●	( ● )	●
CLEARFIL™ PHOTO CORE		●			●
CLEARFIL™ CORE NEW BOND		●		●	
CORE FORMS		●			

( ● ): self-curing properties

Radiopaque	Contains color shades	Page number
●	2	60
●	1	62
●	1	64
		66

## CLEARFIL™ DC CORE PLUS

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.



## INDICATIONS

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

## BENEFITS

- 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

## PRODUCT RANGE



#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)

### ACCESSORIES

#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 & Quick Kit

#3580-EU Dentin

#3581-EU White

Content: CLEARFIL™ DC CORE PLUS (White or Dentin): 1 syringe (9 ml); CLEARFIL™ Universal Bond Quick: 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



#3571-EU

### CLEARFIL™ Universal Bond Quick Kit



#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)

## 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. 135th 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". 89th 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. 135th 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. 135th Meeting of the Japanese Society of Conservative Dentistry, Osaka, 2011 #P72 (restorative).

## CLEARFIL™ PHOTO CORE

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.



## INDICATIONS

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

## BENEFITS

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

## PRODUCT RANGE

#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 NEW BOND

CLEARFIL™ CORE is a self-curing composite core build up material (filler contents: 78 wt %, 63 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 non-vital teeth.



## INDICATIONS

- Core build-up of vital or non-vital teeth

## BENEFITS

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

## PRODUCT RANGE



#315-EU

### Kit

Content: 1 catalyst paste (23 g), 1 universal paste (21 g)

## 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.



## CORE FORMS

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 PLUS, CLEARFIL™ PHOTO CORE, or CLEARFIL™ Core.



## INDICATIONS

- Simplifies fast and efficient core build-up

## BENEFITS

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

## PRODUCT RANGE

#991-EU

### Intro Kit

Content: (10 pcs.): size 1 (1), size 2 (2), size 3 (2), size 4 (2), size 5 (2), size 6 (1)

#992-EU

### Full Assortment

Content: (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

# KATANA™ ZIRCONIA BLOCK

KATANA™ Zirconia Block is the innovative multi-layered zirconia block that makes it possible to fabricate full zirconia restorations at chairside in just 45 minutes. - the ultimate collaboration of advanced materials and technology.

The multi-layered KATANA™ Zirconia Block consists of four layers zirconia in graduated shades allowing the chairside fabrication of natural-tooth colored restorations. Eliminating a time-consuming and complex situation of staining the restoration.

With it superb mechanical properties and aesthetic qualities that mimics natural teeth, KATANA™ Zirconia Block brings in the best of both worlds. Highly translucent and great flexural strength. This results in better mechanical properties than lithium disilicate glass ceramics and exceptional aesthetics.



## INDICATIONS

- Anterior crown
- Posterior crown
- Veneer
- Inlay
- Onlay

## BENEFITS

- Delivers better mechanical properties than lithium disilicate glass ceramics
- Aesthetic quality mimics natural teeth through enhanced translucency
- Single-visit chairside restorations. 15 min. Milling + 30 min. Sintering
- Bond with PANAVIA V5 for an excellent adhesion to zirconia

## PRODUCT RECOMMENDATIONS



### PANAVIA™ V5 Paste

- #3611-EU Universal (A2)
- #3612-EU Clear
- #3613-EU Brown (A4)
- #3614-EU White
- #3615-EU Opaque



#3382-EU

### PANAVIA™ SA Cement Plus Automix (Universal (A2))

#1301-IP

### KATANA™ Zirconia TWIST DIA Introductory Kit 14mm (3pcs)



#1302-IP

### COARSE 14mm (10pcs)



#1302-IP

### MEDIUM 14mm (10pcs)



#1302-IP

### FINE 14mm (10pcs)

## PRODUCT RANGE

### STML Refills 12Z

- #125-5961-EU NW
- #125-5701-EU A1
- #125-5721-EUA2
- #125-5741-EU A3
- #125-5761-EU A3.5
- #125-5781-EU A4
- #125-5801-EU B1
- #125-5821-EU B2

Content: 5 blocks

### STML Refills 12Z

- #125-5841-EU 12Z B3
- #125-5861-EU 12Z C1
- #125-5881-EU 12Z C2
- #125-5901-EU 12Z C3
- #125-5921-EU 12Z D2
- #125-5941-EU 12Z D3
- #125-6011-EU 12Z CL

Content: 2 blocks

### STML Refills 14Z

- #125-5972-EU NW
- #125-5712-EU A1
- #125-5732-EU A2
- #125-5752-EU A3
- #125-5772-EU A3
- #125-5792-EU A4
- #125-5812-EU B1
- #125-5832-EU B2

Content: 5 blocks

### STML Refills 14Z

- #125-5852-EU B3
- #125-5872-EU C1
- #125-5892-EU C2
- #125-5912-EU C3
- #125-5932-EU D2
- #125-5952-EU D3

Content: 2 blocks

### STML Set 12Z

#125-5980-EU Basic Kit: A1, A2, A3, A3.5, B2

Content: 5 blocks

# CARIES DETECTOR

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 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.



Rated the #1 Caries Detecting  
Dyes by REALITY 2016

## INDICATIONS

- Disclosing caries dentin in cavity preparations

## BENEFITS

- 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

## PRODUCT RANGE

#220-EU

**1 bottle: 6 ml**

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## PRODUCT RECOMMENDATIONS



#3571-EU

**CLEARFIL™ Universal Bond Quick**  
Kit



#1970-EU

**Clearfil™ SE Bond**  
Kit

## TEETHMATE™ DESENSITIZER

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 used in combination with the favorite adhesive or cement as well. This is a brand new product on the European market, and received great appreciation among dentists already in Japan.

Various studies show that the application of TEETHMATE™ DESENSITIZER is effective and occludes 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.



## INDICATIONS

- 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

## BENEFITS

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

## PRODUCT RANGE

#1210-EU

### Set

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

#1215-EU

### Introductory Set

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

#1216-EU

### Powder (6 g)

#1217-EU

### Liquid (4.8 ml)

## ACCESSORIES

#1220-EU

### 1 measuring spoon

#1221-EU

### 50 applicator brushes

## PRODUCT RECOMMENDATIONS



### PANA VIA™ V5 Standard Kit

#3601-EU Universal (A2)

#3602-EU Clear



### PANA VIA™ F 2.0 Complete Kit

#501-EU TC

#504-EU Light



## TEETHMATE™ F-1

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 pits 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.



## INDICATIONS

- Pit and fissure sealant

## BENEFITS

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

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.



## PRODUCT RANGE

#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.**

# KURASPER™ F

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 it can immediately be burdened.



## INDICATIONS

### Applicable brackets

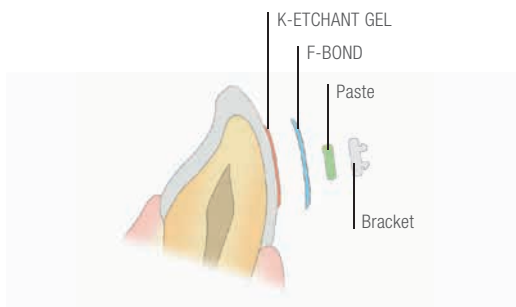
- Metal brackets
- Ceramic brackets
- Composite brackets with a mechanical retention at base surface

### Inapplicable

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

## BENEFITS

- Special bonding without damaging the enamel
- Immediate high bond strength
- Long-term fluoride release
- Easy handling



## PRODUCT RANGE

#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**

# PRETREATMENT AGENTS - OVERVIEW

		Metals	Noble Metals	Zirconia	Composites
<b>CLEARFIL™ CERAMIC PRIMER PLUS</b>		●	●	●	●
<b>ALLOY PRIMER</b>		●	●		
<b>K-ETCHANT Syringe</b>					●
<b>K-ETCHANT GEL</b>					●
<b>CLEARFIL™ DC Activator</b>					
<b>CLEARFIL™ PORCELAIN BOND ACTIVATOR</b>					●

Glass Ceramics	Enamel	Dentin	Page number
●			78
			80
	●	●	82
	●	●	84
	● 1)	● 1)	86
●	●	●	88

1) Mix with an adhesive (e.g. CLEARFIL UNIVERSAL BOND QUICK) for combination with dual- or selfcuring composites.

# CLEARFIL™ CERAMIC PRIMER PLUS

The all-new CLEARFIL™ CERAMIC PRIMER PLUS is the universal prosthetic primer for almost all prosthetic surfaces. It durably bonds to ceramics (lithium disilicate, zirconia), hybrid ceramics (e.g. ESTENIA™ C&B), composite resins and metals.

The original MDP monomer bonds to metals and metal-oxides such as zirconia. Silane coupling agent  $\gamma$  MPS guarantees a strong adhesion to composites, glass-ceramics and hybrid ceramics (e.g. ESTENIA™ C&B). This perfect mixture of ingredients will give you long lasting adhesion to virtually all dental materials.



## INDICATIONS

- Surface treatment of prosthetic restorations made of ceramic, hybrid ceramics, composite resin or metal
- Intraoral repairs of fractured restorations made of ceramics, hybrid ceramics, composite resin or metal

## BENEFITS

- Pretreatment for restorations made of ceramic, hybrid ceramics, composite resin or metal.
- The original MDP and silane coupling agent  $\gamma$  MPS guarantee a strong adhesion.
- Simple use (apply & dry)

## PRODUCT RANGE



#3637-EU  
**Primer: 4 ml**

## PRODUCT RECOMMENDATIONS



### PANAIA™ V5 Standard Kit

#3601-EU Universal (A2)

#3602-EU Clear

Content 1 Syringe 4.6 ml, 1 Tooth Primer

2 ml, 1 CLEARFIL™ Ceramic Primer Plus

2 ml, 1 K-ETCHANT Syringe 3 ml, 15 pcs. Mixing tip, 5 pcs. Endo tip, 50 pcs.

Applicator brush (fine <silver>)

1 Mixing dish, 20 pcs. Needle tip



### PANAIA™ V5 Paste

#3611-EU Universal (A2)

#3612-EU Clear

#3613-EU Brown (A4)

#3614-EU White

#3615-EU Opaque

Content 1 Syringe 4.6 ml, 20 pcs. Mixing tip



# ALLOY PRIMER

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.



Rated the #1 Metal Primers  
by REALITY 2016

## 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

## BENEFITS

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

## PRODUCT RANGE

#064-EU

**1 bottle: 5 ml**

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## BIBLIOGRAPHY

- Kern M, Barloï A, Yang B.: Surface conditioning influences zirconia ceramic bonding. J. Dent Res. 2009 Sep;88(9):817-22.
- Yang B, Barloï 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 SYRINGE

The all-new K-ETCHANT Syringe lets you fully control your application.

Thanks to its thixotropic characteristics, you easily place the etchant. And it just stays where you want.

The new small nozzle gives you perfect control to pin point your application.

Etching was never more precise.



## INDICATIONS

- Etching of enamel and dentin
- Cleaning of dental restorative materials

## BENEFITS

- Easy and pin point application with 0,5 mm nozzle
- Optimized consistency for safe etching procedure
- Thixotropic properties give you full control over the etchant
- No air bubbles

## PRODUCT RANGE



#3252-EU

### **K-ETCHANT Syringe**

Content: 2 K-ETCHANT Syringes (3 ml), 40 needle tips

#3253-EU

### **K-ETCHANT Syringe Needle tips**

Content: 20 needle tips

## PRODUCT RECOMMENDATIONS



#3571-EU

### **CLEARFIL™ Universal Bond Quick Bottle Standard Kit**

Content: 1 Bottle (5 ml), 1 K-ETCHANT Syringe (3 ml), 1 dispensing dish, 1 light-blocking plate, 50 applicator brushes (fine), 20 needle tips



#1970-EU

### **CLEARFIL™ SE BOND Kit**

Content: Bond (5 ml), Primer (6 ml), 100 applicator brushes (fine), 1 mixing dish, 1 light blocking plate, 1 outer case

## PRETREATMENT AGENTS

CERAMIC PRETREATMENT, PHOSPHORIC ACID AGENT

### K-ETCHANT GEL

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.



## 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

## PRODUCT RANGE

#013-EU

**1 bottle: 6 ml**

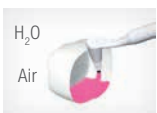
## BENEFITS

- Thixotropic properties provide controlled application
- 40% phosphoric acid

## APPLICATION



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



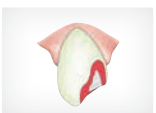
Etching all-ceramic crowns with K-ETCHANT GEL before preparation of a silane layer.



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).

# CLEARFIL™ DC Activator

CLEARFIL™ DC Activator activates the dual-curing mechanism of the CLEARFIL™ Bonding System (e.g. CLEARFIL™ SE BOND 2, CLEARFIL™ SE Protect or CLEARFIL™ UNIVERSAL BOND QUICK).

When mixed with the bond from these systems they become dual-cure. The results are truly universal adhesives with low film-thickness & high self-cure bond strengths.

This unique combination provides a simple, universal solution for all of your indirect & core build-up restorations.



## INDICATIONS

- Core build-up in conjunction with self- or dual- cured core build-up materials
- Cementation in conjunction with self- or dual- cured composite resin cements

## BENEFITS

- Works with CLEARFIL™ Bonding system
- Low film thickness for indirect restorations
- Strong self-cure bond strengths
- Touch-cure effect
- Core build-up in combination with self- or dual-cured core build-up materials
- Cementation in combination with self- or dual-cured composite resin cements

## PRODUCT RANGE



#3250-EU  
**CLEARFIL™ DC Activator**  
**1 bottle (4 ml)**

## PRODUCT RECOMMENDATIONS



#3571-EU  
**CLEARFIL™ Universal Bond Quick Bottle Standard Kit**  
Content: 1 Bottle (5 ml), 1 K-Etchant Syringe (3 ml), 1 dispensing dish, 1 light-blocking plate, 50 applicator rushes (fine), 20 needle tips



# CLEARFIL™ PORCELAIN BOND ACTIVATOR

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™ SE BOND, the primer of CLEARFIL™ SE PROTECT, 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.



## 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

## BENEFITS

- 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™ SE PROTECT, 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

## PRODUCT RANGE

#061-EU

**1 bottle: 4 ml**

## 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.

## PRODUCT RECOMMENDATIONS



#2892-EU

**Clearfil™ S<sup>3</sup> Bond Plus: 4 ml**



#1982-EU

**Clearfil™ SE Bond Primer: 6 ml**

# CLEARFIL™ SA PRIMER

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



## INDICATIONS

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

## BENEFITS

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

## PRODUCT RANGE

#066-EU

**1 bottle: 6 ml**

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## PRODUCT RECOMMENDATIONS



#075-EU

### **CLEARFIL™ PHOTO BOND**

Clearfil™ SA Primer enhances the bond strength of Clearfil™ Photo Bond.

## CLEARFIL™ REPAIR

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.



## 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

## BENEFITS

- 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

## PRODUCT RANGE

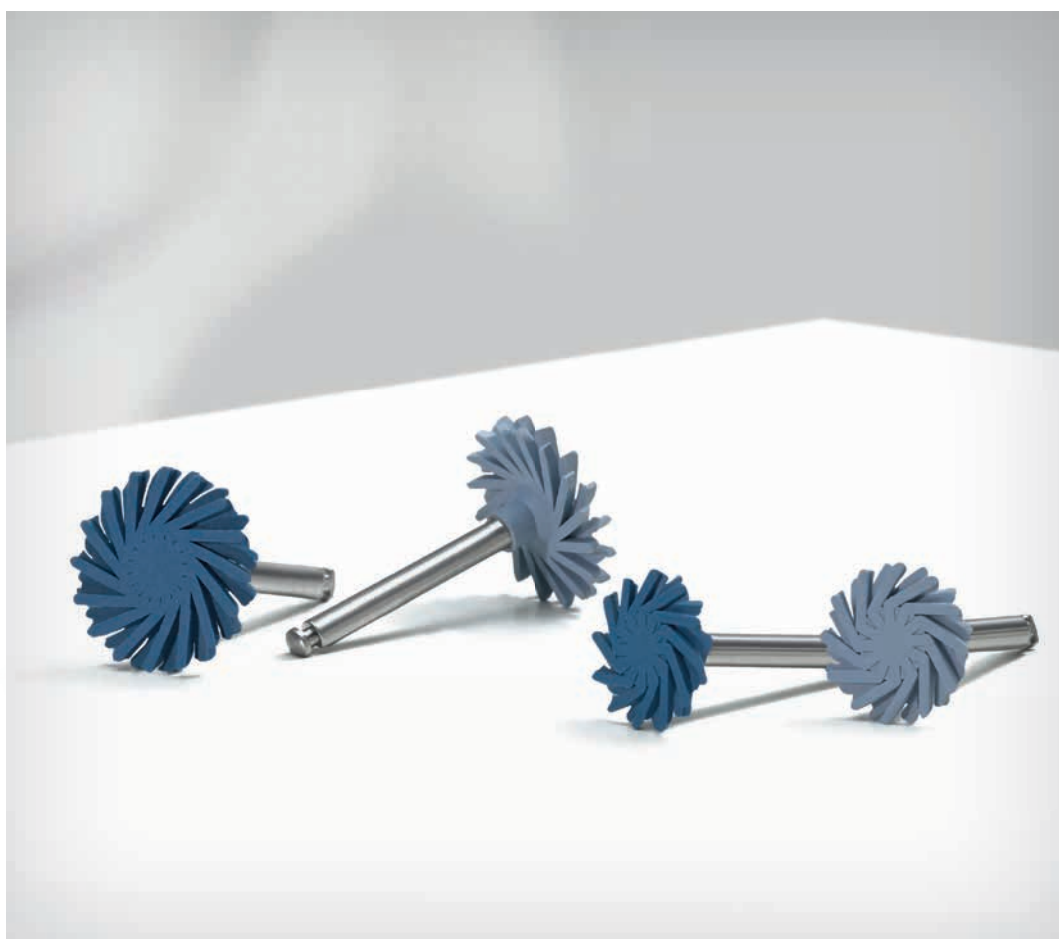
#1971-EU

### Kit

Content: 1 CLEARFIL™ SE BOND Primer: 6 ml,  
1 CLEARFIL™ SE 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

# CLEARFIL™ TWIST DIA

There is only a little number of polishing systems existing which are that flexible, easy to use and efficient as this new polishing system. Besides the special shape, the employed pure diamond grains lead to high shine surfaces combined with short application times. Additionally, the CLEARFIL™ Twist DIA is applied in only two steps that are adapted to each other for outstanding polishing results. And the best comes for the last – the polishing system is suitable for each composite surface – even the polishing of the occlusion is considerably simplified! The constant release of new diamond grains gives you a great result several treatments. Just try it – and you'll be surprised how simple your polishing procedure can actually be!



## INDICATIONS

- Indicated for all composite surfaces

## BENEFITS

- Easy polishing procedure thanks to just two polishers
- Pre-polisher to smooth the surface
- High shine polisher to create natural gloss
- Reusable thanks to constant release of diamond grains
- 100 % diamond grains inside –no substitutes or cheaper abrasive particles

## PRODUCT RANGE

14 mm

1201-IP **Introductory Kit** (3 pre-polishing / 3 high-shine polishing)

1202-IP **Refill Pre-Polisher** (10 pcs)

1203-IP **Refill High-shine Polisher** (10 pcs)

10 mm

1211-IP **Introductory Kit** (3 pre-polishing / 3 high-shine polishing)

1212-IP **Refill Pre-Polisher** (10 pcs)

1213-IP **Refill High-shine Polisher** (10 pcs)

**Combination kits** 14 mm / 10 mm

1221-IP **Refill Pre-Polisher Combi Kit** (5 x 14mm / 5 x 10 mm)

1222-IP **Refill High-shine Polisher Combi Kit** (5 x 14 mm / 5 x 10 mm)

## 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 ml / 0.9 ml



# KATANA™ ZIRCONIA TWIST DIA

Polishing of high-gloss zirconia oxide in three steps. The innovative shape with the flexible polishing lamellae creates a natural gloss on all zirconia oxide restorations. No matter if the surfaces are level, convex or concave, the diamond-impregnated lamellae polish them at a high-gloss level. In addition, KATANA™ Zirconia TWIST DIA is autoclavable.

KATANA™ Zirconia TWIST DIA is available in three coarseness grades: coarse, medium and fine. It can only be supplied with a corner connection (RA). We advise you to start polishing with the coarse grade, followed by medium and fine to obtain the ultimate high-gloss result.

Recommended speed of rotation: 7,000 - 10,000 rpm for Coarse/Medium/Fine.

Maximum speed of rotation: 20,000 rpm



## INDICATIONS

- Polishing surface of zirconia restorations

## BENEFITS

- Flexible polishing twist for refining all types of tooth surfaces
- Highly suitable for occlusions
- Modelling of zirconia restoration is maintained
- Sterilizable and reusable
- Economic efficiency due to high durability and reusability

## PRODUCT RANGE

#1301-IP  
**Introductory Kit 14mm (3pcs)**



#1302-IP  
**COARSE 14mm (10pcs)**



#1303-IP  
**MEDIUM 14mm (10pcs)**



#1305-IP  
**FINE 14mm (10pcs)**

## PRODUCT RECOMMENDATIONS

### STML Refills 12Z

#125-5961-EU NW  
#125-5701-EU A1  
#125-5721-EUA2  
#125-5741-EU A3  
#125-5761-EU A3.5  
#125-5781-EU A4  
#125-5801-EU B1  
#125-5821-EU B2  
Content: 5 blocks

### STML Refills 12Z

#125-5841-EU 12Z B3  
#125-5861-EU 12Z C1  
#125-5881-EU 12Z C2  
#125-5901-EU 12Z C3  
#125-5921-EU 12Z D2  
#125-5941-EU 12Z D3  
#125-6011-EU 12Z CL  
Content: 2 blocks

### STML Refills 14Z

#125-5972-EU NW  
#125-5712-EU A1  
#125-5732-EU A2  
#125-5752-EU A3  
#125-5772-EU A3  
#125-5792-EU A4  
#125-5812-EU B1  
#125-5832-EU B2  
Content: 5 blocks

### STML Refills 14Z

#125-5852-EU B3  
#125-5872-EU C1  
#125-5892-EU C2  
#125-5912-EU C3  
#125-5932-EU D2  
#125-5952-EU D3  
Content: 2 blocks

### STML Set 12Z

#125-5980-EU Basic Kit: A1, A2, A3, A3.5, B2  
Content: 5 blocks

# CLEARFIL™ DISPENSER

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

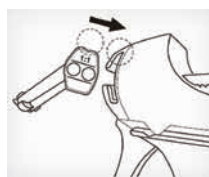


## INDICATIONS

- To facilitate easy, precise dispensing of Automix syringe products

## BENEFITS

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



## INSTRUCTIONS

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

- <sup>1</sup> Prepare the dispenser to receive the syringe by pushing the release lever located on the back of the dispenser.
- <sup>2</sup> Remove the syringe plunger by pulling it back while holding the syringe.
- <sup>3</sup> 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.
- <sup>4</sup> Attach Mixing tip or Endo tip.
- <sup>5</sup> Dispense.

## PRODUCT RECOMMENDATIONS

#3382-EU

**PANAVIA™ SA Cement Plus Automix (Universal (A2))**

#3383-EU

**PANAVIA™ SA Cement Plus Automix (White)**

#3384-EU

**PANAVIA™ SA Cement Plus Automix (Translucent)**

#2942-EU

**CLEARFIL™ DC CORE PLUS Dentin**

#2943-EU

**CLEARFIL™ DC CORE PLUS White**

# OVERVIEW 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 #3626-EU

**Mixing tip (PANA VIA™ V5): 20 tips**

#3629-EU

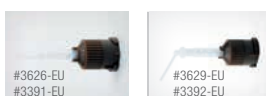
**Endo tip (PANA VIA™ V5): 20 tips**

#3391-EU

**Mixing tip (PANA VIA™ SA Cement Plus): 20 tips**

#3392-EU

**Endo tip (PANA VIA™ SA Cement Plus): 20 tips**



05 #1015-EU

**Needle tips (CLEARFIL MAJESTY™ Flow): 20 tips**

#3331-EU

**Needle tips (CLEARFIL MAJESTY™ ES Flow): 20 tips**



06 #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**



07 #901-EU

**Brush, small (transparent)**



08 #921-EU

**Brush, small  
(straight flat transparent)**



09 #965-EU

**Brush tip handle (white)**



## ACCESSORIES

10 #966-EU

**Brush tip handle (black)**



11 #905-EU

**Mixing spatula (Self-curing composites): 100 pcs.**



14 #1221-EU

**TEETHMATE™ DESENSITIZER**

**Applicator brush: 50 pcs.**



15 #1220-EU

**TEETHMATE™ DESENSITIZER Measuring spoon**



18 #902-EU

**Mixing dish (CLEARFIL™ adhesives,  
TEETHMATE™ DESENSITIZER)**



19 #953-EU

**Mixing dish (PANAVIA™ F 2.0)**



- 12** #906-EU  
**Mixing spatula (PANA VIA™)**



- 13** #1024-EU  
**Applicator brush, fine (CLEARFIL™ S<sup>3</sup> BOND PLUS)**  
 #1025-EU  
**Applicator brush, endo (CLEARFIL™ S<sup>3</sup> BOND PLUS)**



- 16** #904-EU  
**Mixing pad (white)**



- 17** #945-EU  
**Mixing pad (blue: 83x59 mm):**  
**PANA VIA™ 21, PANA VIA™ F 2.0**



- 20** #1022-EU  
**Dispensing dish (CLEARFIL™ S<sup>3</sup> BOND PLUS)**  
 #1023-EU  
**Light blocking plate (CLEARFIL™ S<sup>3</sup> BOND PLUS)**



- 21** #941-EU  
**Sponge: 400 pcs.**





# COLOR SHADES

## KURARAY COLOR CODE

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

## CONVERSION OF THE VITA™ COLOR CODE

Vita	A1	A2	A3	A3.5	A4	B1	B2	B2.5	B3
*Kuraray	UL	US	DY, (B)	G	—	L, XL <sup>1</sup>	U	UY	Y,YO
Vita	B4	C2	C3	OA1	OA2	OA3	OB4	Enamel	HO
*Kuraray	YB	DGO	DG	LO	UO	DYO	YOB	—	—

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

<sup>1</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
<b>Enamel</b>	Enamel		Enamel
<b>HO</b>	Hollywood Opaque (Bleach White)	Light	A1
<b>UL</b>	Universal Light	Dark	
<b>LO</b>	Light Opaque	Opaque	
<b>US</b>	Universal Standard		A2
<b>UO</b>	Universal Opaque	Opaque	
<b>DY</b>	Dark Yellow	Light	A3
<b>B</b>	Brown	Dark	
<b>DYO</b>	Dark Yellow Opaque	Opaque	
<b>G</b>	Gray		A3.5
<b>XL</b>	Extra Light	Light	B1
<b>L</b>	Light	Dark	
<b>U</b>	Universal		B2
<b>UY</b>	Universal Yellow		B2.5
<b>Y</b>	Yellow		B3
<b>YO</b>	Yellow Opaque	Opaque	
<b>DYO</b>	Dark Yellow Opaque	Opaque	B3.5
<b>YB</b>	Yellow Brown		B4
<b>YBO</b>	Yellow Brown Opaque	Opaque	
<b>DGO</b>	Dark Gray Opaque	Opaque	C2
<b>DG</b>	Dark Gray		C3

## APPENDIX

### GUARANTEE

#### DESCRIPTION

Please read carefully the relevant instructions for use before utilizing these products. CLEARFIL™, CLEARFIL MAJESTY™, PANAVIA™, OXYGUARD™ and TEETHMATE™ are trademarks of the company Kuraray Noritake Dental 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 Noritake Dental Inc. All of the information shown here is given to the best of our knowledge, but without the assumption of any guarantees.

Kuraray Noritake Dental Inc. hereby declares that it will replace any products verified to be defective. Neither Kuraray Noritake Dental 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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