



## **PRODUCT CATALOG CHAIRSIDE**

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, IFUs, 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.

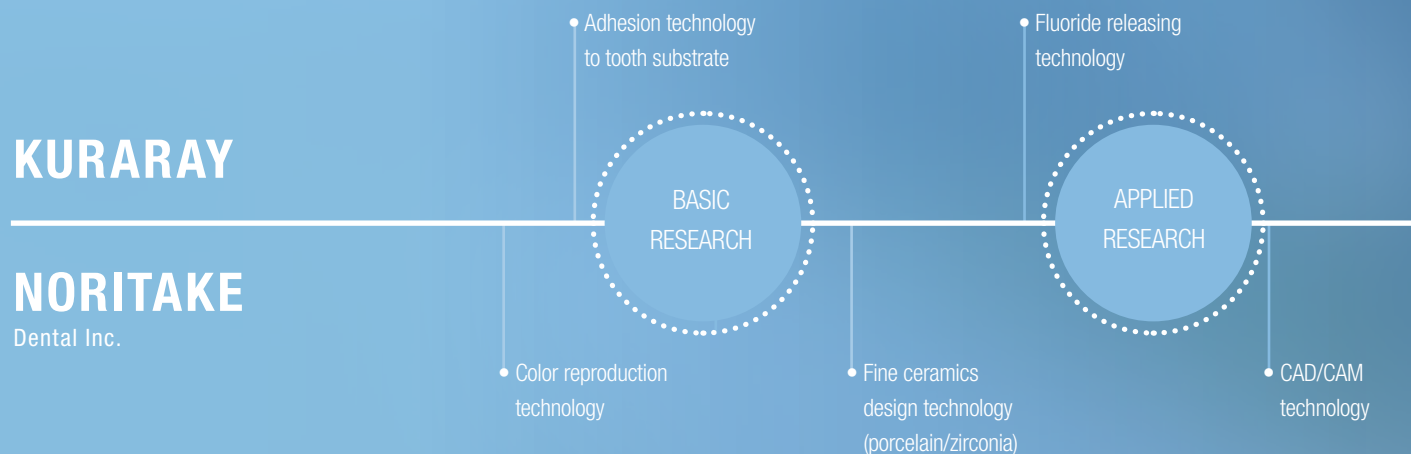
## SHAPING THE FUTURE OF ESTHETICS



- Innovator of next generation dental products
- Inventor of adhesive monomer MDP
- Adhesive first-rate standard: CLEARFIL™ and PANAVIA™
- Inventor of KATANA™ Multi-Layered zirconia

## RESEARCH & DEVELOPMENT

Dental Innovation track record of 40 years.



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

- The business unit develops dental & medical materials
- 4 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)

Noritake 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

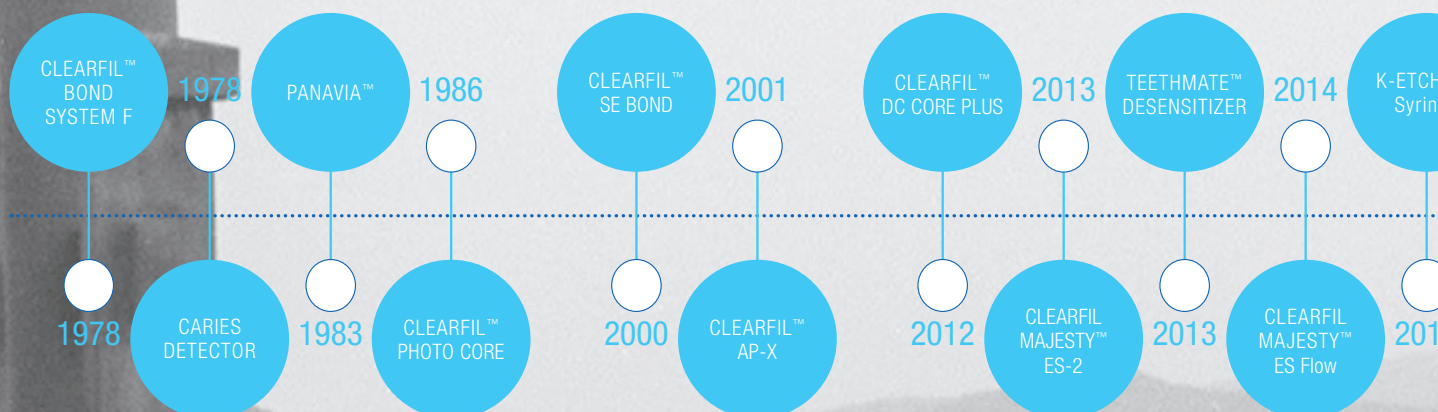
- CAD/CAM advancement
- Non-metal alternative materials

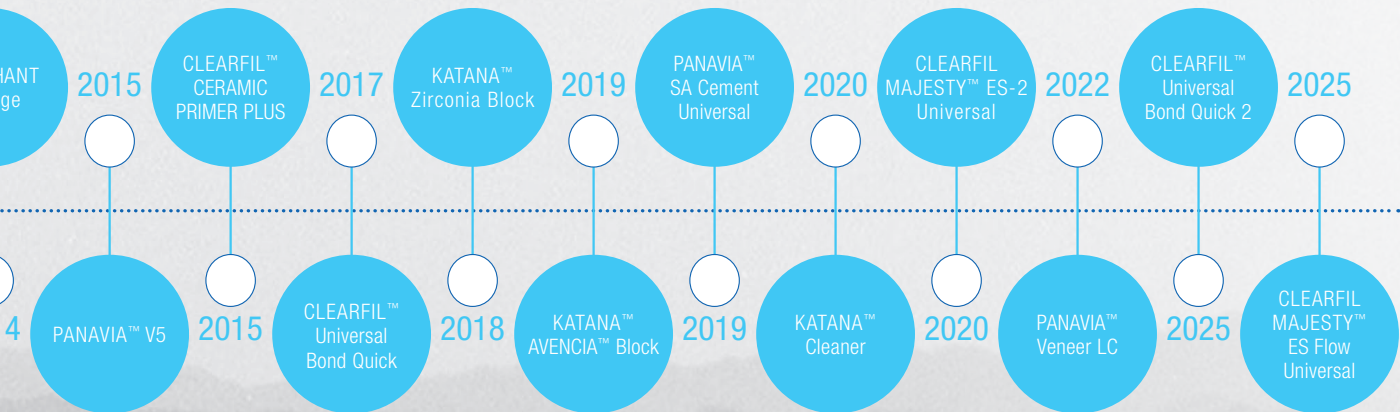
# Kuraray Noritake Dental Inc.

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.







# kuraray

## RESEARCH & DEVELOPMENT

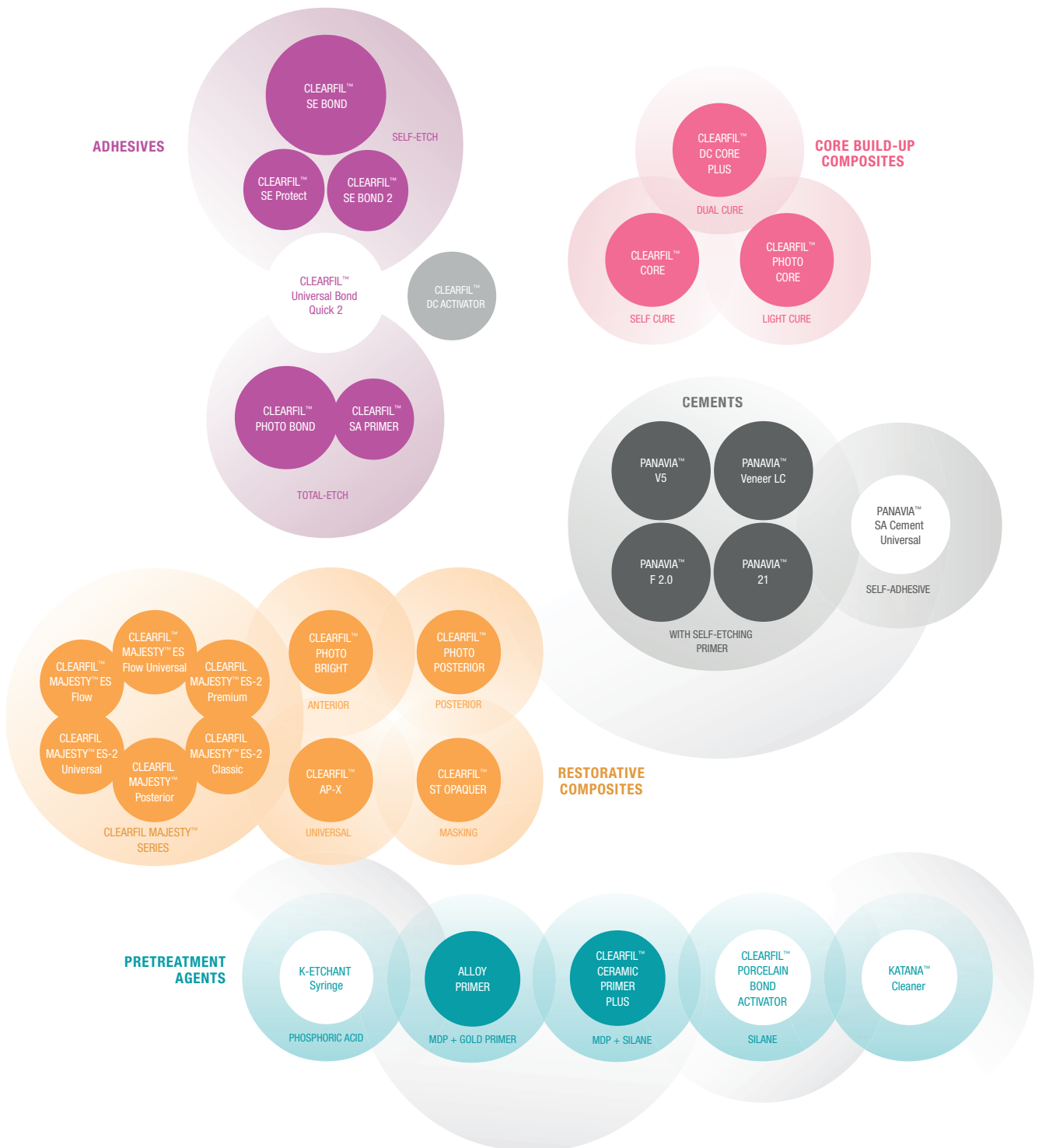
Kuraray began to develop dental products in the 1970s. Today we are recognized as an innovator in the research and development of dental products that simplify everyday dental procedures while delivering first-class, lasting results.

## 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.

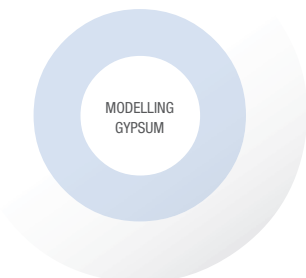
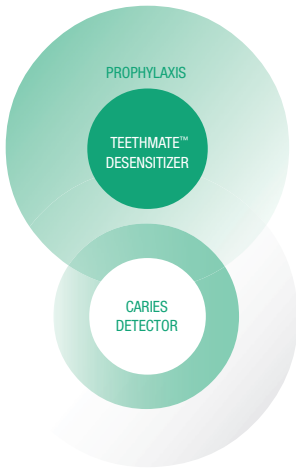
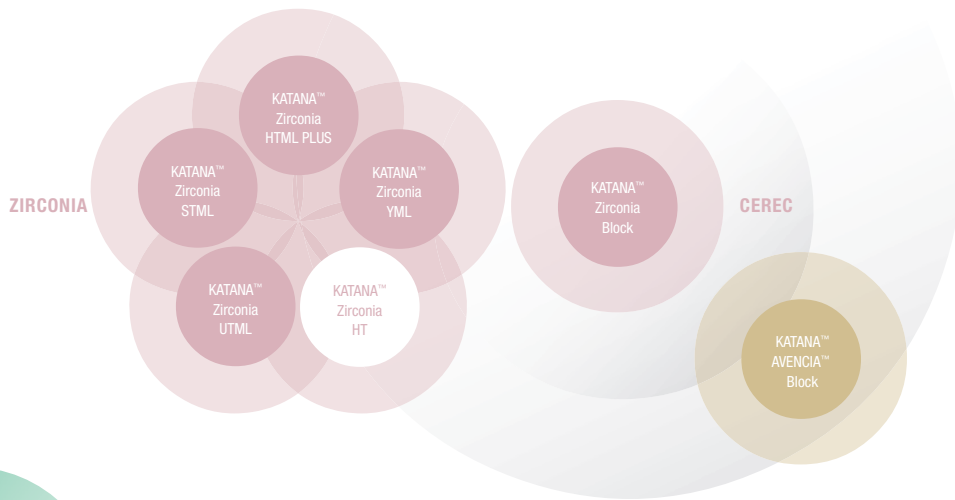


**HIGH TECH**

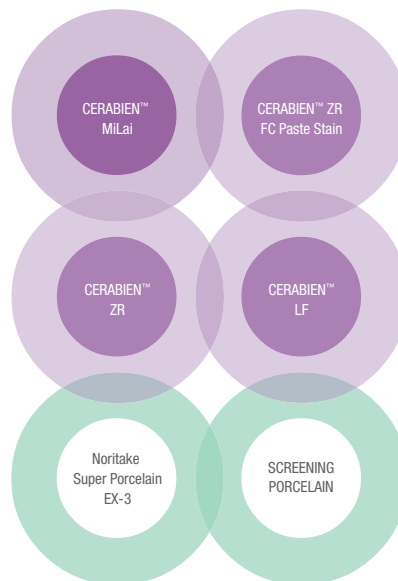
Kuraray Inc., our mother, develops highly innovative products for many more fields of business besides dentistry. The portfolio ranges from synthetic plastics to fine chemicals and technology used for high-tech processes and finishing.

**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.



LAB  
MATERIALS



PORCELAINS

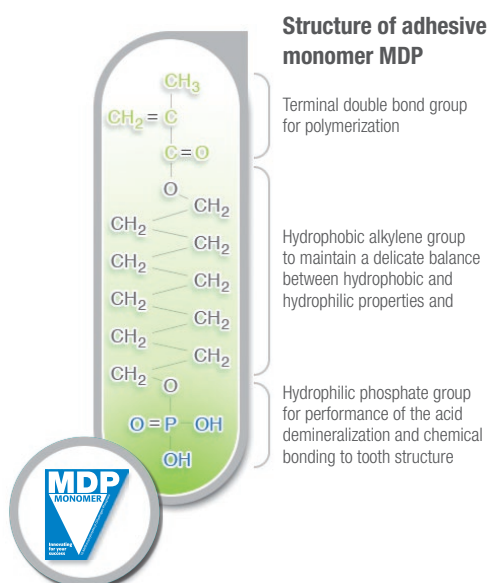
# CORE TECHNOLOGY OF KURARAY

## 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.



## LSCi



### DESCRIPTION

The unique LCSi monomer creates a strong chemical bond to Porcelain, Lithium Disilicate and Composite Resin. This unique silane has a long hydrocarbon spacer (the hydrocarbon chain between the silanol group and the methacrylate group) which makes it more hydrophobic and stable than the small  $\gamma$ -MPS molecule. The reaction with the silica particles in the glass-based materials is expected to be also more orderly and faster. The result is a more optimally bonded surface with a greater resistance to hydrolysis.



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.

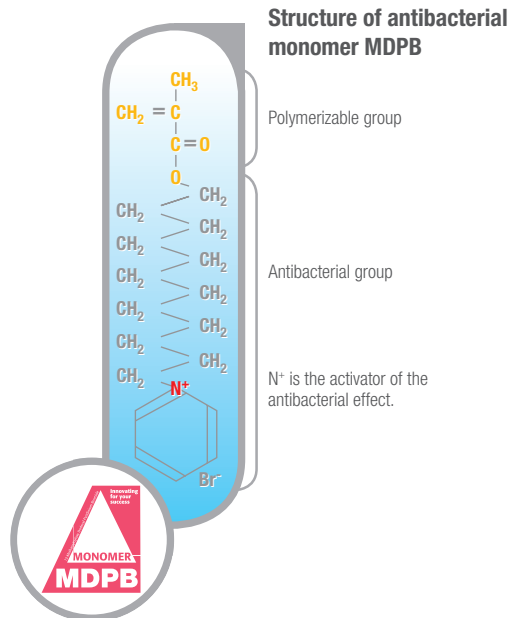


## MDPB MONOMER



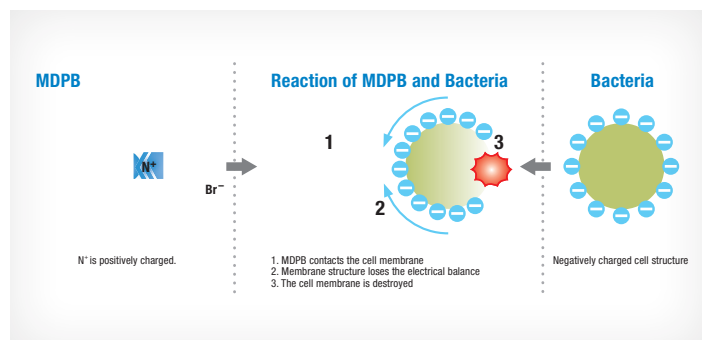
## ANTIBACTERIAL EFFECTS OF THE MDPB MONOMER

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 by the positively charged contact points of the MDPB monomer. They then lose their electrical balance, destroying the cell membrane of the bacteria. The bacteria are killed by this process, which is also known as bacteriolysis.



## 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, 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.

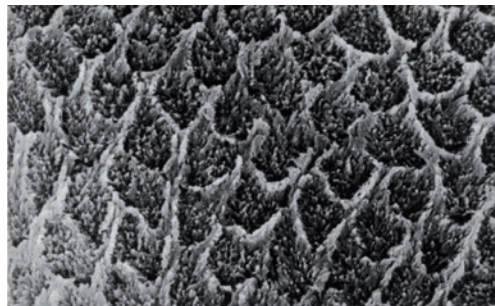
In 1978, Prof. T. Fusayama from the Tokyo Medical and Dental University was confronted with a technical problem. He had the idea of permanently filling cavities with resin materials as an esthetic alternative to amalgam. But in contrast to hydrophilic tooth hard structure, the composites displayed hydrophobic 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%)

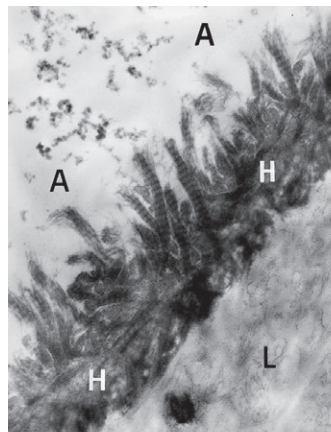
## DIRECT DESENSITIZATION AND CONDITIONING WITH WATER-BASED SELF-ETCHING ADHESIVES OF THE CLEARFIL™ SERIES

“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.

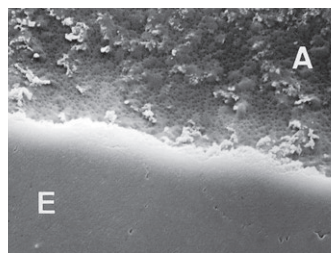
The slightly acidic pH was thus reduced further and raised to a neutral level, which allowed the primer to stay in the cavity. This made it possible to avoid complicated work steps such as rinsing, drying, changing cotton rolls as well as the risks of excessive etching and overdrying. The following adhesive 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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Conversion of the Kuraray Noritake Dental Color Code

Color Code to the Vita™ Color Code






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# ADHESIVES - OVERVIEW

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

Light-curing	Self-curing	Curing time (light)*	Combination with light-curing composites	Combination with self-curing composites	Page number
●		10 sec.	●	● 2)	16
●		10 sec.	●		18
●		10 sec.	●	● 3)	20
●		10 sec.	●	● 3)	24
●	● 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 Universal).

3) With CLEARFIL™ DC Activator.

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

5) Self-curing properties.

6) With CLEARFIL™ SA PRIMER.

\*Curing time is depending on type of curing light, please refer to Instructions for Use of the product.

# CLEARFIL™ Universal Bond Quick 2

## THE EVERYTHING BOND

CLEARFIL™ Universal Bond Quick 2 represents the latest innovation in dental bonding technology, providing a streamlined and efficient solution for dental practitioners. Compatible with all etching techniques, it is suitable for direct and indirect restorations as well as core build-up procedures, offering the versatility and flexibility essential for modern dentistry.

In addition to delivering consistent and predictable results, CLEARFIL™ Universal Bond Quick 2 eliminates waiting time, extensive rubbing, and the need for multiple layers. This saves valuable time for dentists while reducing the risk of errors and contamination, particularly in cases where moisture control is challenging.

Powered by Advanced Rapid Bond Technology, this adhesive provides for a strong, durable bond to enamel, dentin, and composite, supporting long-lasting and reliable restorations.





## INDICATIONS

- Direct restorations using light-cured composite resin
- Sealing of a prepared cavity or abutment tooth 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 restoration

## BENEFITS

- Great flowability and easy application
- Quick and straightforward procedure
- A solid bond to dentin and enamel
- High strength bonding layer
- Versatility for various applications
- Minimized risk of pooling
- Storage at room temperature

## PRODUCT RANGE



#4042-EU  
**Bottle Refill** 5.0 ml x 1 bottle

#4044-EU  
**Bottle Value Pack** 5.0 ml x 3 bottles

#4045-EU  
**Bottle Trial** 1.0 ml x 1 bottle



#4046-EU  
**Unit Dose Standard Pack**  
1 ml tip x 50 tips, applic.  
brush fine silver x 50 pcs

#4048-EU  
**Unit Dose Trial**  
0.1 ml tip x 5 tips, applic.  
brush fine silver x 5 pcs

## PRODUCT RECOMMENDATIONS

### CLEARFIL MAJESTY™ ES Flow Universal



#### SINGLE PACK LOW

#4600-EU Low (U)  
#4601-EU Low (UD)  
1 syringe 1.5 ml x 1, needle tip x 15 pcs

#4606-EU Low (U) TRIAL  
#4609-EU Low (UD) TRIAL  
1 syringe 0.5 ml x 1, needle tip x 5 pcs



#### SINGLE PACK SUPER LOW

#4620-EU Super Low (U)  
#4621-EU Super Low (UD)  
1 syringe 1.5 ml x 1, needle tip x 15 pcs

#4622-EU Super Low (U) TRIAL  
#4623-EU Super Low (UD) TRIAL  
1 syringe 0.5 ml x 1, needle tip x 5 pcs

### CLEARFIL MAJESTY™ ES-2 Universal

#### 1 SYRINGE 2.0 ML

#3181-EU Universal (U)  
#3183-EU Universal Light (UL)  
#3184-EU Universal Dark (UD)  
#3182-EU Universal White (UW)

#### 20 PLT 0.25G

#3191-EU Universal (U)  
#3193-EU Universal Light (UL)  
#3194-EU Universal Dark (UD)  
#3192-EU Universal White (UW)

### PANAVIA™ SA Cement Universal

#### HANDMIX

#4202-EU Universal (A2)  
#4203-EU White  
#4204-EU Translucent  
1 syringe 5.0 ml

#### AUTOMIX

#4212-EU Universal (A2)  
#4213-EU White  
#4214-EU Translucent  
1 syringe 4.6 ml, 20 Mixing tips



**KATANA™ Cleaner**  
#3970-EU 4.0 ml x 1 bottle



**K-etchant Syringe**  
#3252-EU 2 Syringes 3.0 ml,  
needle tip x 40 pcs

## 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 MDP monomer contributes to reduction in 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, reducing 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

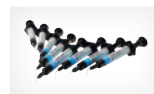
1 syringe Clear, Amber, Blue, Gray: 1.8 g/0.9 ml



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



## 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 using a dual- or self-cured composite resin (bottle)
- Core build-ups using a light-, dual- or self-cured core material (bottle)
- Core build-ups using a light- or dual-core material (Unit Dose)
- Cementing inlays, onlays, crowns, bridges and veneers using a composite resin cement

## 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

## 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 bond 1 bottle (5ml)



#3282-EU

### Refill Primer 1 bottle (6ml)

## PRODUCT RECOMMENDATIONS



#3637-EU

### CLEARFIL™ CERAMIC PRIMER PLUS (4 ml)



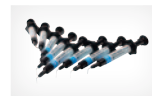
### CLEARFIL MAJESTY™ ES-2 (color selection)

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™ LINER BOND 2V

CLEARFIL™ Liner Bond 2V enables the processing of all light-curing and chemically curing composites as well as amalgamates.

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-cure or chemical-cure composite resin
- Bonded amalgam restorations
- Treatment of hypersensitive and/or exposed root surfaces
- Cavity sealing as a pretreatment for indirect restorations
- Intraoral repairs of fractured porcelain facing crowns using light-cure composite
- Cementing laminated veneer, inlays and onlays made of porcelain (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

#1920-EU

### Kit

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

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

# CLEARFIL™ SE Protect

CLEARFIL™ SE Protect is a self-etch universal adhesive with antibacterial effect. Just use the self-etch primer with the bond to create your direct restorations. 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.





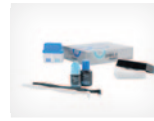
## INDICATIONS

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



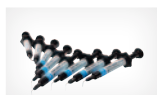
### CLEARFIL MAJESTY™ ES-2 (color selection)

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

## 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.



## INDICATIONS

- Enamel and dentin bonding agent for direct composite restorations

## BENEFITS

- High bond strength to tooth enamel and dentin
- Both light-curing and self-curing
- Simple procedure
- 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.

# RESIN CEMENTS - OVERVIEW

				Indications				
	Type	Mixing	Crowns/ bridges	Inlays/ onlays	Cores/ posts	Adhesion bridges	Veneers	
<b>PANA VIA™ V5</b> 	self-etching primer / resin cement	auto mixing	●	●	●	●	●	
<b>PANA VIA™ Veneer LC</b> 	self-etching primer / resin cement	auto mixing	●	●	●	●	●	
<b>PANA VIA™ SA Cement Universal</b> 	self-adhesive resin cement	auto and hand mixing	●	●	●	●		
<b>PANA VIA™ 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			30
●	●	●	●	●	●	light-curing			32
●	●	●	●	●	●	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

# RESIN CEMENTS

## DUAL-CURING

# 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 aesthetic 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 way to 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.

\*PANAVIA™ V5 is suitable for the cementation of all regular used types of restorative materials such as ceramics (porcelain, lithium disilicate, Zirconia, etc.), composite resins and metal based restorations.



## 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
- Outstanding marginal sealing
- High bond strength
- High mechanical stability
- Fluoride releasing
- Color stable

## PRODUCT RECOMMENDATIONS



#3635-EU  
**PANAVIA™ 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 PANAVIA™ 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 Paste 1.8 ml (Universal (A2)), 1 Try-in Paste 1.8 ml (Clear), 1 Try-in Paste 1.8 ml (Brown (A4)), 1 Try-in Paste 1.8 ml (White), 1 Try-in Paste 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



**PANAVIA™ 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



**PANAVIA™ 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)



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



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

# PANAVIA™ Veneer LC

Easy application, long working time, excellent bond strength and lasting aesthetics: PANAVIA™ Veneer LC offers all those properties needed for veneer cementation. A balanced paste viscosity and consistency of the light-curing cement allow for easier dispensing and correct seating of the restoration, while the working time is long enough to facilitate simultaneous placement of multiple veneers. PANAVIA™ V5 Tooth Primer seals the tooth-adhesive interface by immediate curing upon contact with the paste (touch cure), leading to a strong and durable bond. A high bond strength to restorative materials is obtained with the aid of the proven CLEARFIL™ CERAMIC PRIMER PLUS. Excess cement is easily removed due to the one-second tack-cure function. Finally, a low film thickness and good polishability allow users to create smooth margins, while the four highly colour-stable shades with matching try-in pastes provide for long-lasting aesthetics.





## INDICATIONS

Cementation of ceramic and composite inlays, onlays and laminate veneers with less than 2mm thickness.

## BENEFITS

- Long working time of 200 seconds\*
- Ideal consistency and non-stickiness
- Tack-cure function for easy excess removal
- Four aesthetics shades with matching try-in pastes
- Minimal film thickness
- Great polishability and gloss retention
- High colour stability for long-lasting aesthetics

\*Working time under ambient light (8000 lux.).

## PRODUCT RANGE



### #4500-EU PANAVIA™ Veneer LC Standard Kit (Universal(A2))

Content: Paste (Universal (A2)) 2.6g/1.5ml, PANAVIA™ V5 Try-in Paste (Universal (A2)) 2.4g/1.8ml, PANAVIA™ V5 Tooth Primer 2ml, CLEARFIL™ CERAMIC PRIMER PLUS 2ml, K-ETCHANT Syringe 3ml, Accessories: 5 applicator tips, 20 needle tips, 50 applicator brushes, 1 mixing dish



### #4501-EU PANAVIA™ Veneer LC Standard Kit (Clear)

Content: Paste (Clear) 2.6g/1.5ml, PANAVIA™ V5 Try-in Paste (Clear) 2.4g/1.8ml, PANAVIA™ V5 Tooth Primer 2ml, CLEARFIL™ CERAMIC PRIMER PLUS 2ml, K-ETCHANT Syringe 3ml, Accessories: 5 applicator tips, 20 needle tips, 50 applicator brushes, 1 mixing dish



### PANAVIA™ Veneer LC Paste (Refill)

#4505-EU Universal (A2)  
#4506-EU Clear  
#4507-EU Brown (A4)  
#4508-EU White

Content: Each 2.6g/1.5ml, 5 applicator tips



### PANAVIA™ V5 Try-in Paste (Refill)

#3621-EU Universal (A2)  
#3622-EU Clear  
#3623-EU Brown (A4)  
#3624-EU Opaque White

Content: Each 1 Try-in Paste 1.8 ml

## PRODUCT RECOMMENDATIONS



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



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

#4513-EU  
**Applicator tip**  
20 applicator tips

# PANAVIA™ SA Cement Universal

PANAVIA™ SA Cement Universal is a forerunner in self-adhesive resin cements containing the unique LCSi monomer that adheres to virtually every material including glass ceramics without the need for a separate primer. Using a unique silane coupling agent built into the paste - LCSi monomer - the cement delivers a strong, durable chemical bond to porcelain, lithium disilicate and composite resin. The original MDP monomer present in the paste too, allows for chemical reactivity with zirconia, dentin and enamel.

PANAVIA™ SA Cement Universal offers wide range of indications for adhesion and is suitable for crowns/bridges, inlays/onlays, posts, and even adhesion bridges. Thanks to its powerful single-step bonding formula, cementation is easier than ever before. The product is available in both automix and handmix options.



## 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 and lithium disilicate
- Easy storage at room temperature\*
- Easy application with little pressure
- Improved Endo tip for easier root canal application
- Automix and Handmix delivery

\* Below 25°C despite the presence of silane(LCSi)

## PRODUCT RECOMMENDATIONS



**KATANA™ Cleaner**  
#3970-EU 4.0 ml x 1 bottle

## PRODUCT RANGE



### SINGLE PACK HANDMIX

**PANAVIA™ SA Cement Universal**  
#4202-EU Handmix (Universal (A2))  
#4203-EU Handmix (White)  
#4204-EU Handmix (Translucent)  
1 syringe per shade (9.2g / 5.0 ml)

### VALUE PACK HANDMIX

**PANAVIA™ SA Cement Universal**  
#4206-EU Handmix Double Pack  
(Universal (A2))  
2 syringes per shade (9.2g / 5.0 ml),  
Mixing spatula, Mixing pad



### SINGLE PACK AUTOMIX

**PANAVIA™ SA Cement Universal**  
#4212-EU Automix (Universal (A2))  
#4213-EU Automix (White)  
#4214-EU Automix (Translucent)  
1 syringe per shade (8.2g / 4.6 ml),  
20 Mixing tips

### VALUE PACK AUTOMIX

**PANAVIA™ SA Cement Universal**  
#4210-EU Automix Value Pack  
(Universal (A2))  
#4211-EU Automix Value Pack  
(Translucent)  
3 syringes per shade (8.2g / 4.6 ml),  
40 Mixing tips, 10 Endo tips (SS)

## ACCESSORIES

#4218-EU  
**PANAVIA™ SA Cement Universal**  
**Mixing tip (20 Pieces)**

#4221-EU  
**PANAVIA™ SA Cement Universal**  
**Endo tip (20 Pieces)**

# RESIN CEMENTS

DUAL-CURING

## PANAVIA™ F 2.0

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

- Durable 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

### Kits

#485-EU TC  
#486-EU White  
#487-EU Opaque  
#488-EU Light  
Content: 1 PANAVIA™ F 2.0 A Paste: 5.0 g (2.3 ml), 1 Panavia™ F 2.0 B Paste: 4.6 g (2.3 ml), 1 ED Primer II Liquid A: 4 ml, 1 ED Primer II Liquid B: 4 ml, 1 Alloy Primer: 1 ml, 1 PANAVIA™ F 2.0 OXYGUARD™ II: 6 ml; + accessories

### 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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- Bouillaguet, S., Troesch, S., Wataha, J. C., Krejci, I., Meyer, J. M., Pashley, D. H.: Microtensile bond strength between adhesive cements and root canal dentin. Dent-Mater. 2003 May; 19(3): 199-205.
- Qualtrough, A. J., Chandler, N. P., Purton, D. G.: A comparison of the retention of tooth-colored posts. Quintessence-Int. 2003 Mar; 34(3): 199-201.
- Ari, H., Yasar, E., Belli, S.: Effects of NaOCl on bond strengths of resin cements to root canal dentin. J-Endod. 2003 Apr; 29(4): 248-51.
- 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
<b>CLEARFIL MAJESTY™ ES-2</b>		●	●	●	●	●
<b>CLEARFIL MAJESTY™ ES-2 Universal</b>		●	●	●	●	●
<b>CLEARFIL™ MAJESTY™ ES Flow</b>		●	●	●	●	●
<b>CLEARFIL™ MAJESTY™ ES Flow Universal</b>		●	●	●	●	●
<b>CLEARFIL MAJESTY™ Posterior</b>		●	●	●	●	( )
<b>CLEARFIL MAJESTY™ Flow</b>		●	●	●	●	●
<b>CLEARFIL™ AP-X</b>		●	●	●	●	●
<b>CLEARFIL™ PHOTO Bright</b>				●	●	●
<b>CLEARFIL™ PHOTO Posterior</b>		●	●	●	●	

( ) : possible

Cementation	Light-curing	Radiopaque	Amount of shades	Page number
	●	●	Classic shades: 18 Premium shades: 18	40
	●	●	4	42
●	●	●	Super Low: 4 Low: 12 High: 5	44
●	●	●	2	46
	●	●	6	48
	●	●	9	50
	●	●	14	52
	●		18	54
	●	●	6	56

## CLEARFIL MAJESTY™ ES-2

### CLASSIC AND PREMIUM SHADES

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 aesthetic 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 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	PREMIUM 3.6 g / 2.0 ml	PLT Refill CLASSIC	PREMIUM 10 tips x 0.25 g
#3020-EU A1	#3050-EU A1E	#3110-EU A1	#3140-EU A1E
#3021-EU A2	#3051-EU A2E	#3111-EU A2	#3141-EU A2E
#3022-EU A3	#3052-EU A3E	#3112-EU A3	#3142-EU A3E
#3023-EU A3.5	#3053-EU A3.5E	#3113-EU A3.5	#3143-EU A3.5E
#3024-EU A4	#3054-EU A4E	#3114-EU A4	#3144-EU A4E
#3025-EU KA6	#3055-EU XWE	#3115-EU KA6	#3145-EU XWE
#3026-EU B1	#3056-EU WE	#3116-EU B1	#3146-EU WE
#3027-EU B2	#3057-EU A1D	#3117-EU B2	#3147-EU A1D
#3028-EU B3	#3058-EU A2D	#3118-EU B3	#3148-EU A2D
#3029-EU B4	#3059-EU A3D	#3119-EU B4	#3149-EU A3D
#3030-EU C1	#3060-EU A3.5D	#3120-EU C1	#3150-EU A3.5D
#3031-EU C2	#3061-EU A4D	#3121-EU C2	#3151-EU A4D
#3032-EU C3	#3062-EU XWD	#3122-EU C3	#3152-EU XWD
#3033-EU C4	#3063-EU WD	#3123-EU C4	#3153-EU WD
#3034-EU D2	<b>1.8 g/0.9 ml</b>	#3124-EU D2	#3154-EU WD
#3035-EU D3	#3064-EU Clear	#3125-EU D3	#3154-EU Clear
#3036-EU XW	#3065-EU Amber	#3126-EU D3	#3155-EU Amber
#3037-EU W	#3066-EU Blue	#3126-EU XW	#3156-EU Blue
	#3067-EU Gray	#3127-EU W	#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



**CLEARFIL™ SE BOND Kit**  
#1970 EU



**CLEARFIL™ Universal Bond Quick 2**  
#4042-EU Bottle Refill 5.0 ml x 1 bottle



## 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

- Simplified, time-saving procedure with fewer, potentially error-prone steps, for predictable results and a minimized inventory
- Convenient handling and enough time for giving the artistic touch to your restorations
- Appealing results that last through time
- Durable restorations

## PRODUCT RANGE

### CLEARFIL MAJESTY™ ES-2 UNIVERSAL SYRINGE

#3181-EU (U)  
#3183-EU Light (UL)  
#3184-EU Dark (UD)  
#3182-EU White (UW)  
1 syringe: 2.0mL (3.6g)

### CLEARFIL MAJESTY™ ES-2 UNIVERSAL PLT

#3191-EU (U)  
#3193-EU Light (UL)  
#3194-EU Dark (UD)  
#3192-EU White (UW)  
20 PLT: 0.25g

## PRODUCT RECOMMENDATIONS



**CLEARFIL™ SE BOND Kit**  
#1970 EU



**CLEARFIL™ Universal Bond Quick 2**  
#4042-EU Bottle Refill 5.0 ml x 1 bottle



**KATANA™ Cleaner**  
#3970-EU 4.0 ml x 1 bottle



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

# RESTORATIVE COMPOSITES

FLOWABLE COMPOSITE, LIGHT-CURING

## CLEARFIL MAJESTY™ ES Flow

CLEARFIL MAJESTY™ ES Flow is a 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 aesthetic and physical properties make it ideal for both, anterior and posterior restorations.

The filler particles of CLEARFIL MAJESTY™ ES Flow have been designed to produce a high gloss and long-lasting gloss. CLEARFIL MAJESTY™ ES Flow is extremely easy and fast to polish in just seconds. Aesthetics are further enhanced by special light diffusion clusters that deliver outstanding color adaptation properties that blend seamlessly with the tooth structure.

CLEARFIL MAJESTY™ ES Flow universal flowable composite now comes with three levels of flowability adapted to your needs. Delivers easy, durable and aesthetic restorations.



## INDICATIONS

- Direct restorations for all cavity classes, cervical lesions (e.g. root surface caries, v-shape defects), tooth wear and tooth erosion
- Cavity base/liner
- Corrections of tooth position and shape
- Intraoral repairs of fractured restorations
- Cementation of ceramic and composite inlays, onlays and veneers with less than 2 mm thickness



## BENEFITS

- Superior gloss retention
- Easy to polish
- Durable restorations
- Wide range of indications
- 3 levels of flowability

## PRODUCT RECOMMENDATIONS



**CLEARFIL™ SE BOND Kit**  
#1970-EU



**CLEARFIL™ Universal Bond Quick 2**  
#4042-EU Bottle Refill 5.0 ml x 1 bottle



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

## PRODUCT RANGE



### SINGLE PACK SUPER LOW

- #3341-EU Super Low (A1)
- #3342-EU Super Low (A2)
- #3343-EU Super Low (A3)
- #3344-EU Super Low (A3.5)
- 1 Syringe (2.7g/1.5ml) 15 Needle tips



### SINGLE PACK LOW

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



### SINGLE PACK HIGH

- #3321-EU High (A1)
- #3322-EU High (A2)
- #3323-EU High (A3)
- #3324-EU High (A2D)
- #3325-EU High (A3D)
- 1 Syringe (2.7g/1.5ml) 15 Needle tips



#3331-EU  
**Flow Needle Tip: 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

## CLEARFIL MAJESTY™ ES Flow Universal

CLEARFIL MAJESTY™ ES Flow Universal represents a fundamental shift in the idea of what universal composites can do. By integrating high filler load and achieving high flexural strength, CLEARFIL MAJESTY™ ES Flow Universal positions itself capable of delivering aesthetic excellence as a permanent solution. Its unique light diffusion technology allows working with only one shade-U for almost all posterior and anterior cavities and shades. UD (Universal dark) shows best results in cavities of shade A3.5 and beyond that are lacking a back wall, such as Class IV cavities. For preferred handling, the product offers two flowability options, Low and Super low.

### ALL RESTORATIONS. ONLY TWO SHADES. HOW DOES IT WORK?

A smart combination of an enamel-like translucency, dentin-like chroma and Light-Diffusion Technology (LDT) does the trick. Thanks to the enamel-like translucency, light is transmitted through the material, bringing out the colour of the surrounding tooth structure. Fine-tuning of the chroma, which is not affected by the surrounding tooth structure, supports natural outcomes. Finally, LDT makes restorations diffuse light in a similar way as enamel and dentin. As a consequence, the material integrates easily and smoothly into the surrounding tooth structure.



## AREAS OF APPLICATION



	Low	Super Low
All cavity classes	✓	✓
Cementing	✓	✓
Cementing of fragile veneers	✓	✓
Tooth positioning and shape correction	✓	✓
Direct veneering	✓	✓
Cavity base	✓	✓
Intraoral repairs	✓	✓

## FEATURES

- Covers all 16 VITA\* shades in all cavities except those lacking of a back wall and of shade A3.5 and darker.
- 2 flowabilities: low and super low for a wide range of indications
- Impressive flexural strength. Sufficient for use even in stress-bearing posterior restorations

## PRODUCT RANGE



### SINGLE PACK LOW

#4600-EU Low (U)  
#4601-EU Low (UD)  
1 Syringe (2.7g/1.5ml) 15 Needle tips



### SINGLE PACK SUPER LOW

#4620-EU Super Low (U)  
#4621-EU Super Low (UD)  
1 Syringe (2.7g/1.5ml) 15 Needle tips



#3331-EU  
**CLEARFIL MAJESTY™ ES Flow**  
Needle tip (N): 20 tips

## PRODUCT RECOMMENDATIONS



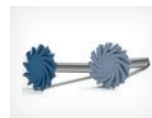
**KATANA™ Cleaner**  
#3970-EU 4.0 ml x 1 bottle



**CLEARFIL™ Universal Bond Quick 2**  
#4042-EU Bottle Refill 5.0 ml x 1 bottle



**K-etchant Syringe**  
#3252-EU 2 Syringes 3.0 ml,  
needle tip x 40 pcs



**TWIST™ DIA for Zirconia**  
#1201-IP Introductory Kit 14 mm  
(3 pre-polishing / 3 high-shine polishing)  
#1211-IP Introductory Kit 10 mm  
(3 pre-polishing / 3 high-shine polishing)



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

\*VITA is a trademark of VITA Zahnfabrik, Bad Sackingen, Germany

## RESTORATIVE COMPOSITES

POSTERIOR COMPOSITE, LIGHT-CURING

# 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 provide for 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

## 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



### CLEARFIL™ SE BOND Kit

#1970-EU



### CLEARFIL™ Universal Bond Quick 2

#4042-EU Bottle Refill 5.0 ml x 1 bottle



### CRIES DETECTOR

#220-EU (6 ml)

## BIBLIOGRAPHY

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

## RESTORATIVE COMPOSITES

FLOWABLE COMPOSITE, LIGHT-CURING

# 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



### CLEARFIL™ SE BOND Kit

#1970-EU



### CLEARFIL™ Universal Bond Quick 2

#4042-EU Bottle Refill 5.0 ml x 1 bottle



### CARIES DETECTOR

#220-EU (6 ml)

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

### 2. Excellent polishability

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

### 3. Low polymerization shrinkage

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

### 4. Visible radiopacity

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

## 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 aesthetic 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 aesthetics 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

- Class III, IV and V restorations
- Direct veneers

## 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 102 for definition.

## RESTORATIVE COMPOSITES

POSTERIOR COMPOSITE, LIGHT-CURING

# CLEARFIL™ PHOTO POSTERIOR

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





## INDICATIONS

- Composite resin restoration for posterior tooth; Class I, II and V cavities

## 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 102 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 102 for definition.

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## 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.

# CORE BUILD-UP COMPOSITES - OVERVIEW

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

( ● ): self-curing properties

<b>Radiopaque</b>	<b>Contains color shades</b>	<b>Page number</b>
●	2	62
●	1	64
●	1	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 aesthetic and durable 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

- Post cementation and core build-up

## 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

## 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 aesthetic 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. CLEARFIL™ PHOTO CORE cuts like dentin after curing, is radiopaque and does not stick to instruments during application thanks to its special formula.





## INDICATIONS

- Core Build-up of vital or non-vital tooth

## BENEFITS

- Actual polymerization depth of 7 mm
- Aesthetic 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**

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## 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 NEW BOND 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 aesthetically 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 NEW BOND is suitable for the construction of both vital and non-vital teeth.



## INDICATIONS

- Composite core build-up

## 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)

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## 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.
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- 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.

# 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 approx. 35 minutes - the ultimate collaboration of advanced materials and technology.

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

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

Now also available KATANA™ Zirconia Block for bridge for up to 3-unit restorations.



## INDICATIONS

Fabrication of the all-ceramic restorations:

- Frameworks
- FCZ crowns
- FCZ bridges (14Z L only)
- Inlays
- Onlays
- Veneers

## 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



#4212-EU  
**PANAVIA™ SA Cement Universal Automix (Universal (A2))**

#1301-IP  
**TWIST™ DIA for Zirconia Introductory Kit 14mm (3pcs)**



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



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



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

## PRODUCT RANGE

### STML Refills 12Z

#125-5701-EU 12Z A1  
#125-5721-EU 12Z A2  
#125-5741-EU 12Z A3  
#125-5761-EU 12Z A3.5  
#125-5781-EU 12Z A4  
#125-5801-EU 12Z B1  
#125-5821-EU 12Z B2  
#125-5961-EU 12Z NW  
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  
Content: 2 blocks

### STML Refills 14Z

#125-5712-EU 14Z A1  
#125-5732-EU 14Z A2  
#125-5752-EU 14Z A3  
#125-5772-EU 14Z A3.5  
#125-5792-EU 14Z A4  
#125-5812-EU 14Z B1  
#125-5832-EU 14Z B2  
#125-5972-EU 14Z NW  
Content: 5 blocks

### STML Refills 14Z

#125-5852-EU 14Z B3  
#125-5872-EU 14Z C1  
#125-5892-EU 14Z C2  
#125-5912-EU 14Z C3  
#125-5932-EU 14Z D2  
#125-5952-EU 14Z D3  
Content: 2 blocks

### STML Refills 14Z L

#125-6592-EU 14Z L A1  
#125-6602-EU 14Z L A2  
#125-6612-EU 14Z L A3  
#125-6622-EU 14Z L A3.5  
#125-6642-EU 14Z L B1  
Content: 3 blocks

### STML Refills 14Z L

#125-6722-EU 14Z L NW  
#125-6632-EU 14Z L A4  
#125-6652-EU 14Z L B2  
#125-6662-EU 14Z L B3  
#125-6672-EU 14Z L C1  
#125-6682-EU 14Z L C2  
#125-6692-EU 14Z L C3  
#125-6702-EU 14Z L D2  
#125-6712-EU 14Z L D3  
Content: 2 blocks

### STML Set 12Z

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

## **KATANA™ AVENCIA™ Block**

KATANA™ AVENCIA™ Block is a new type of hybrid ceramic developed, bringing together the organic/inorganic technology and experience that we have gained through long years developing and working with restorative materials.

KATANA™ AVENCIA™ Block is produced using our unique manufacturing method. The nano-sized fillers are densely compressed into a block, which is then uniformly impregnated with resin monomer. The resin is then polymerized by heat. This new type of hybrid ceramic block has great mechanical strength to withstand occlusal pressure, as well as excellent gloss retention.



## INDICATIONS

Fabrication of restorations using a dental

CAD/CAM system:

- Inlays
- Onlays
- Veneers
- Full contour crowns

## BENEFITS

- Homogeneous nano-structure
- Excellent mechanical properties
- Superior polishability
- Wear resistant

## PRODUCT RANGE

### UNIVERSAL

#3650-EU 12 A2  
#3651-EU 12 A3  
#3652-EU 12 A3.5  
#3686-EU 14L A2  
#3687-EU 14L A3  
#3688-EU 14L A3.5  
Content: 5 blocks

### CEREC

#4101-EU 12 A2  
#4102-EU 12 A3  
#4103-EU 12 A3.5  
#4147-EU 14L A2  
#4148-EU 14L A3  
#4149-EU 14L A3.5  
Content: 5 blocks

## PRODUCT RECOMMENDATIONS



### PANA VIA™ V5 Paste

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



#4212-EU

### PANA VIA™ SA Cement Universal Automix (Universal (A2))

# 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.





## 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



#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 product has received great appreciation on the European market, and also 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), 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 (superfine <white>)

## PRODUCT RECOMMENDATIONS











### PANA VIA™ V5 Standard Kit

#3601-EU Universal (A2)

#3602-EU Clear

# 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>					●
<b>KATANA™ Cleaner</b>		●	●	●	●
<b>CLEARFIL™ SA PRIMER</b>					●

Glass Ceramics	Enamel	Dentin	Page number
●			78
			80
	●	●	82
	●	●	84
	● 1)	● 1)	86
●	●	●	88
●	●	●	90
			92

1) Mix with an adhesive (e.g. CLEARFIL™ Universal Bond Quick) for combination with dual- or self-curing composites.

# PRETREATMENT AGENTS

## CERAMIC AND METAL PRIMER

# 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



### PANAVIA™ 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



### PANAVIA™ 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

# PRETREATMENT AGENTS

## METAL PRIMER

### 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.





## INDICATIONS

- Adhesion of metal inlays, onlays, crowns, bridges and metal cast posts
- Repair of fractured resin-based facing crowns and porcelain-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, Barloi A, Yang B.: Surface conditioning influences zirconia ceramic bonding. J. Dent Res. 2009 Sep;88(9):817-22.
- Yang B, Barloi A, Kern M.: Influence of air-abrasion on zirconia ceramic bonding using an adhesive composite resin. Dent Mater. 2010 Jan;26(1):44-50.

## K-ETCHANT 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 has never been 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



#013-EU

### **K-ETCHANT GEL: 6 ml**

## PRODUCT RECOMMENDATIONS



#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 the enamel and dentin for adhesive restorations

## BENEFITS

- Thixotropic properties provide controlled application
- 40% phosphoric acid

## PRODUCT RANGE

#013-EU

**1 bottle: 6 ml**

# 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 and high self-cure bond strengths.

This unique combination provides a simple, universal solution for all of your indirect and 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)**

# 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

- Repair of porcelain or porcelain fused-to-metal crowns and bridges
- Restoration of gingival porcelain areas where bonding to porcelain is necessary
- Increased retention of porcelain inlays, onlays, crowns, and veneers
- Increased retention of composite inlays and onlays

## 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 intra- and extra-oral 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 dish.



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

## PRODUCT RECOMMENDATIONS



#1982-EU

**CLEARFIL™ SE Bond Primer: 6 ml**

# KATANA™ Cleaner

### REMOVE CONTAMINATION TO OPTIMISE YOUR ADHESIVE PROCEDURES

KATANA™ Cleaner is a universal cleaning solution suitable for all adhesive procedures.

During trial fitting your restoration might become contaminated with proteins reducing the bond strength. KATANA™ Cleaner has a high cleaning effect due to the surface active characteristic of MDP Salt.

In contrast to other cleaners, KATANA™ Cleaner has a pH value of 4.5<sup>1</sup> which allows usage not only extra-orally but also intra-orally. It is the easy way to optimise your bondings including cementation procedures.

KATANA™ Cleaner is easy and fast to use. Rub in, rinse and dry. That's all you need to do to optimise your adhesive procedure. Unlike other cleaners that require longer rubbing time, and are limited to extra-oral use only, KATANA™ Cleaner only requires 10 seconds and can be used both extra- and intra-orally.

<sup>1</sup> Measuring method: JIS Z 8802:2011



## INDICATIONS

- Cleaning of contaminated glass ceramic, zirconia, resin restorations, metal restorations and fiber post after intraoral try-in
- Cleaning of contaminated prepared tooth (cavity, root canal and tooth abutment), and implant abutment

## BENEFITS

- For all restorative procedures
- Intra- and extra-oral use
- High cleaning effect

## PRODUCT RANGE



#3970-EU  
**KATANA™ Cleaner (4.0ml)**

#3971-EU  
**KATANA™ Cleaner Trial (1.0ml)**

## PRODUCT RECOMMENDATIONS



### PANAVIA™ 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



### PANAVIA™ 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



### KATANA™ AVENCIA™ Block

UNIVERSAL	CEREC
#3650-EU 12 A2	#4101-EU 12 A2
#3651-EU 12 A3	#4102-EU 12 A3
#3652-EU 12 A3.5	#4103-EU 12 A3.5
#3686-EU 14L A2	#4147-EU 14L A2
#3687-EU 14L A3	#4148-EU 14L A3
#3688-EU 14L A3.5	#4149-EU 14L A3.5
Content: 5 blocks	Content: 5 blocks



### SINGLE PACK HANDMIX

**PANAVIA™ SA Cement Universal**  
#4202-EU Handmix (Universal (A2))  
#4203-EU Handmix (White)  
#4204-EU Handmix (Translucent)  
1 syringe per shade (9.2g / 5.0 ml)



### SINGLE PACK AUTOMIX

**PANAVIA™ SA Cement Universal**  
#4212-EU Automix (Universal (A2))  
#4213-EU Automix (White)  
#4214-EU Automix (Translucent)  
1 syringe per shade (8.2g / 4.6 ml),  
20 Mixing tips



### KATANA™ Zirconia Block

**STML Refills 12Z**  
**STML Refills 14Z**  
**STML Refills 14Z L**  
See page 69

## CLEARFIL™ SA PRIMER

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



## INDICATIONS

- CLEARFIL™ SA PRIMER in conjunction with K-ETCHANT GEL and CLEARFIL™ PHOTO BOND is indicated for composite resin restorations

## BENEFITS

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

## PRODUCT RANGE



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

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## PRODUCT RECOMMENDATIONS



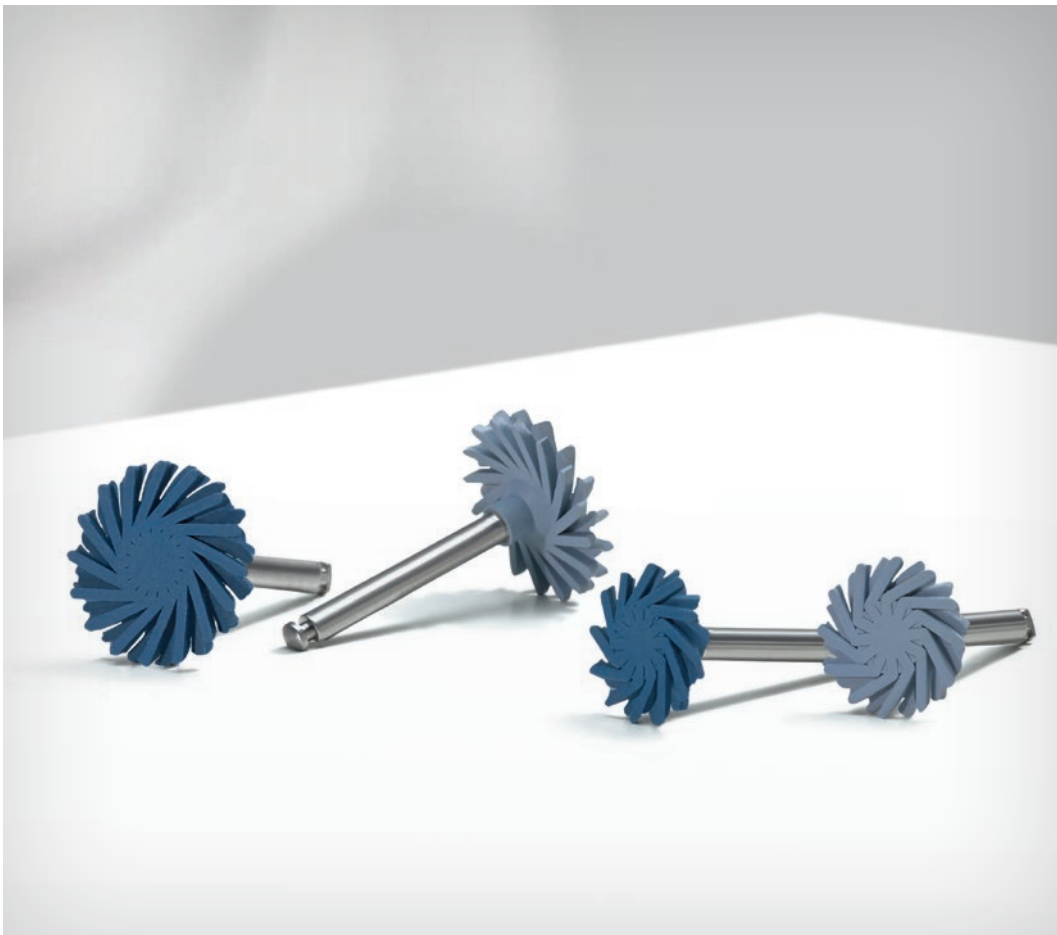
#075-EU  
**CLEARFIL™ PHOTO BOND**  
CLEARFIL™ SA PRIMER enhances the bond strength of CLEARFIL™ PHOTO BOND.

### TWIST™ DIA for Composite

TWIST™ DIA is indicated for all sorts of composites. The 'pre-polisher' creates the final form from any angle imaginable. With the 'high-shine polisher', you can finish with a natural high-gloss result in seconds. TWIST™ DIA is autoclavable and thus reusable. The combination of flexible components and diamond particles give you an unprecedented high-gloss result with each use!

Recommended speed of rotation: 3.000 – 8.000 rpm for Medium/Fine

Maximum speed of rotation: 20.000 rpm



## INDICATIONS

- Polishing surface of composite restorations

## BENEFITS

- Easy polishing procedure thanks to only two polishers
- Pre-polisher to smooth the surface
- High-shine polisher to create natural gloss
- Sterilizable and reusable
- Economic efficiency due to high durability and reusability
- 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)

#1204-IP **Trial** (1 pre-polishing / 1 high-shine polishing)

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)

#1214-IP **Trial** (1 pre-polishing / 1 high-shine polishing)

**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

### TWIST™ DIA for Zirconia

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 polishes them to a high-gloss level.

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

Maximum speed of rotation: 20,000 rpm





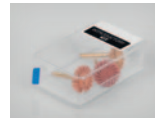
## INDICATIONS

- 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



**KATANA™ Zirconia Block**

### STML Refills 12Z

#125-5701-EU 12Z A1  
#125-5721-EU 12Z A2  
#125-5741-EU 12Z A3  
#125-5761-EU 12Z A3.5  
#125-5781-EU 12Z A4  
#125-5801-EU 12Z B1  
#125-5821-EU 12Z B2  
#125-5961-EU 12Z NW

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

Content: 2 blocks

### STML Set 12Z

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

### STML Refills 14Z

#125-5712-EU 14Z A1  
#125-5732-EU 14Z A2  
#125-5752-EU 14Z A3  
#125-5772-EU 14Z A3.5  
#125-5792-EU 14Z A4  
#125-5812-EU 14Z B1  
#125-5832-EU 14Z B2  
#125-5972-EU 14Z NW

Content: 5 blocks

### STML Refills 14Z

#125-5852-EU 14Z B3  
#125-5872-EU 14Z C1  
#125-5892-EU 14Z C2  
#125-5912-EU 14Z C3  
#125-5932-EU 14Z D2  
#125-5952-EU 14Z D3

Content: 2 blocks

### STML Refills 14Z L

#125-6592-EU 14Z L A1  
#125-6602-EU 14Z L A2  
#125-6612-EU 14Z L A3  
#125-6622-EU 14Z L A3.5  
#125-6642-EU 14Z L B1

Content: 3 blocks

### STML Refills 14Z L

#125-6722-EU 14Z L NW  
#125-6632-EU 14Z L A4  
#125-6652-EU 14Z L B2  
#125-6662-EU 14Z L B3  
#125-6672-EU 14Z L C1  
#125-6682-EU 14Z L C2  
#125-6692-EU 14Z L C3  
#125-6702-EU 14Z L D2  
#125-6712-EU 14Z L D3

Content: 2 blocks

# OVERVIEW ACCESSORIES

01 #917-EU

**Disposable nozzles  
(OXYGUARD™ II): 20 nozzles**



02 #968-EU

**Disposable brush tips  
(white): 50 tips**



03 #3626-EU

**Mixing tip (PANAVIA™ V5): 20 tips**

#3629-EU

**Endo tip (PANAVIA™ V5): 20 tips**

#4218-EU

**Mixing tip (PANAVIA™ SA Cement Universal): 20 tips**

#4221-EU

**Endo tip (PANAVIA™ SA Cement Universal): 20 tips**



04 #1015-EU

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

#3331-EU

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



05 #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**



06 #965-EU  
**Brush tip handle (white)**



07 #966-EU  
**Brush tip handle (black)**



08 #906-EU  
**Mixing spatula (PANAVIA™)**



09 #1024-EU  
**Applicator brush (fine <silver>)**  
#1025-EU  
**Applicator brush (endo <black>)**



# ACCESSORIES

- 11 #1221-EU  
**Applicator brush (superfine <white>)**  
50 pcs.



- 12 #1220-EU  
**TEETHMATE™ DESENSITIZER**  
Measuring spoon



- 13 #904-EU  
**Mixing pad (white)**



- 14 #945-EU  
**Mixing pad (blue: 83 x 59 mm):**  
PANAVIA™ 21, PANAVIA™ F 2.0



- 15 #902-EU  
**Mixing dish (CLEARFIL™ adhesives,**  
**TEETHMATE™ DESENSITIZER)**



- 16 #953-EU  
**Mixing dish (PANAVIA™ F 2.0)**



- 17 #1022-EU  
**Dispensing dish**
- #1023-EU  
**Light blocking plate**



- 18 #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

<b>Vita</b>	A1	A2	A3	A3.5	A4	B1	B2	B2.5	B3
<b>*Kuraray</b>	UL	US	DY, (B)	G	–	L, XL <sup>1</sup>	U	UY	Y, YO
<b>Vita</b>	B4	C2	C3	OA1	OA2	OA3	OB4	Enamel	HO
<b>*Kuraray</b>	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. TWIST™ DIA for Composite and TWIST™ DIA for Zirconia are manufactured by EVE Ernst Vetter GmbH. 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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