PANAVIA® SA Cement Universal

Suitable for prosthetic restorations
Even LiDiSi cementation
Easy, gum-friendly excess removal
No need for separate primers
Storage at room temperature

Kuraray Noritake Dental Inc.  kuraraynoritake.eu/panavia-sa-cement-universal
ADHERES TO GLASS CERAMICS, WITHOUT THE NEED FOR A SEPARATE PRIMER

A BREAKTHROUGH FROM THE INNOVATORS OF ADHESION AND SILANE TECHNOLOGY.

The unique LCSI monomer creates a strong chemical bond to Porcelain, Lithium Disilicate and Composite Resin.

The Original MDP monomer creates a strong chemical bond to Enamel, Dentin, Metal Alloy and Zirconia.

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.

Building on the success of our PANAVIA™ SA Cement Plus, PANAVIA™ SA Cement Universal also offers the same 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.

EASY STORAGE. EASY APPLICATION. EASY EXCESS REMOVAL.

Room temperature storage  Easy application

Apply  Remove cement  Ready

1 Original MDP Technology
Kuraray Noritake Dental’s original MDP technology was created in 1961 and engineered to push adhesive dental materials to their maximum performance. Since launching PANAVIA™ with the original MDP in 1993 it has become a worldwide success. Today, we integrate MDP in most of our adhesive products, like gold-standard CLEARFIL™ SE BOLO. Still today, more than 50 years after its invention, MDP continues to have an impact on the dental world. It has recently even been used by other manufacturers. We are honored that they chose MDP to improve their adhesive products. But isn’t MDP actually just a functional monomer? The MDP monomer provides 25θ-burger phosphonate; that is the connector between our adhesive materials and the tooth structure, metal alloys and zirconia. Only the best functional monomer technology will enable you to provide the most durable treatment.
THE FAST AND EASY WAY TO ACHIEVE DURABLE PROSTHETIC RESTORATIONS CEMENTATION

CEMENTS INLAYS, ONLAYS, POSTS AND EVEN ADHESION BRIDGES

When you require fast, easy, durable cementation, even to glass ceramics, PANAVA™ SA Cement Universal is the answer. Suitable for almost all indirect work, including adhesive bridges, even post placement in root canals, it gives you more control than ever before. Thanks to easier application, it does away with the need for a dispenser. In addition, our Universal (A2) shade delivers outstanding aesthetics. There’s also a translucent shade and a little more opaque white shade for your specific needs. The result is that your cementations are now more versatile and easier than ever.

EASY, GUM FRIENDLY EXCESS REMOVAL

Two options of polymerization, the same easy clean-up result.

Tack-cure
2 to 5 seconds

Self-cure
2 to 4 minutes

When the cement is used in combination with CLEARFIL™ Universal Bond Quick, remove excess cement will be faster (1 to 2 seconds).

EFFORTLESS CURING

A unique blend of curing technologies ensures your cement cures quickly with a durable seal. As our hydrophilic initiators make contact with the moist dentin, the self-curing reaction is accelerated (Fig. 1). And when you start to cure your cement, with light-curing the reaction is accelerated by the radical amplifiers (Fig. 2).

Fig. 1: Self-cure acceleration by moist tooth tissue.

Hydrophilic initiators
Excited state photo initiators
Radicals
Radical amplifiers

Fig. 2: Light-cure acceleration by radical amplifiers.

Photo initiators
Activated hydrophilic initiator

1 When cementing to unrestored or placing adhesion bridges, acid-etched with phosphoric acid (e.g. KITODENT™ Syntrop) to the enamel surface. Cementation of veneers is not indicated.
**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)

**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
SCIENCE

TEM IMAGES OF CEMENT INTERFACE SHOW GOOD DENTIN-CEMENT BONDING

HIGH BOND STRENGTH TO PROSTHETIC MATERIALS

Shear Bond Strength to Restorative Materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Bond Strength (MPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KATANA™ Zirconia HT</td>
<td>40</td>
</tr>
<tr>
<td>Lithium Disilicate</td>
<td>30</td>
</tr>
<tr>
<td>Porcelain</td>
<td>20</td>
</tr>
<tr>
<td>KATANA™ AVENCA™ Block</td>
<td>10</td>
</tr>
<tr>
<td>Ti</td>
<td>80</td>
</tr>
<tr>
<td>Co-Cr</td>
<td>70</td>
</tr>
<tr>
<td>Gold Alloy</td>
<td>60</td>
</tr>
</tbody>
</table>

Data source: Katana Norfaile Dental Inc.

Shear Bond Strength to Tooth Structure

<table>
<thead>
<tr>
<th>Material</th>
<th>Bond Strength (MPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANAVIA™ SA Cement Universal with CLEARFIL™ Universal Bond Quick</td>
<td>30</td>
</tr>
<tr>
<td>PANAVIA™ SA Cement Universal</td>
<td>10</td>
</tr>
</tbody>
</table>

CLEARFIL™ Universal Bond Quick can be used on the tooth structure to enhance the bond strength for cases with limited retention. This combination makes the usage of CLEARFIL™ DC ACTIVATOR unnecessary.

Data source: Katana Norfaile Dental Inc.
CLINICAL INFORMATION

ONE SINGLE PROCEDURE FOR ALL ADHESIVE CEMENTATIONS

Example: single crown
Regardless of the restorative material: no primer required. One single procedure regardless of the restorative material.

Conditioning the crown. *
"Clean and dry the tooth surface, and then fill the prosthetic restoration, followed by conditioning of the crown.

Dispense an equal amount of Paste A & B. Mix Paste A & B for 10 seconds.

Apply the cement to the crown.

Place the crown. Light-cure for 2 to 5 seconds or let self-cure for 2 to 4 minutes, then remove the excess cement.

Light-cure the margin and maintain isolation for 5 minutes. *
"For a transient restoration, fully light-cure.

CONDITIONING THE PROSTHETIC RESTORATION

Follow the instructions for use of the restoration material. In the absence of specific instructions we recommend the following procedure:

Silica Based Ceramics
Lithium Disilicate
(IPS e.max)*

Hydrofluoric acid
Apply hydrofluoric acid, then rinse with water and dry.

Metal oxide ceramic
(e.g. Zirconia),
Composite resin

or

Metal

Blast 0.1 - 0.4 MPa
Blast with alumina powder (30 - 50 μm), then ultrasonic clean and dry.

*Other Lithium Disilicates on the market may recommend blasting. In that case, blast with alumina powder (0.1 - 0.2 μm), then 30 - 50 μm, then ultrasonic clean and dry.

TECHNICAL SPECS

F-ion release: Contains surface treated sodium fluoride (less than 1%)
Storage temperature: 2 - 25°C / 36 - 77°F
Filler loading: 62 wt% (40 vol %)
Compressive strength: 300 MPa
Flexural strength: 91 MPa

Flexural modulus: 4.6 GPa
Water sorption: 27 µg/mm²
Film thickness: Approx. 14 µm
Radiopacity: 170 % Al
Working time (23°C): 60 sec.

1 Dual curing (combination of self- and light-cure) 2 According to ISO 4049: 2009
Source: Kuraray Noritake Dental Inc.
The final result may be influenced by minor evaluation conditions stipulated by ISO regulations.
PRODUCT ASSORTMENT

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

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

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

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

MIXING TIP
#4218-EU 20 pieces

ENDO TIP (SS)
#4221-EU 20 pieces

SHADES
<table>
<thead>
<tr>
<th>Universal (A2)</th>
<th>White</th>
<th>Translucent</th>
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Before using this product, be sure to read the Instructions for Use supplied with the product.

The specifications and appearance of the product are subject to change without notice.

Printed color can be slightly different from actual color.

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