The excellent test results in detail.

Strong bond strength & consistent marginal integrity
Kuraray’s unique adhesive monomer MDP in the primer creates a strong chemical bond to hydroxyapatite. Being in use for more than 20 years, the MDP has a proven excellence in durability to the tooth structures.

PANAVIA™ F 2.0 order information:

PANAVIA™ F 2.0, Complete Kit

- PASTE: 5.0g (2.3ml)
- OXYGUARD™ II (6ml)
- ALLOY PRIMER (1ml)
- ED PRIMER II Liquid A (4 ml)
- ED PRIMER II Liquid B (4 ml)
- CLEARFIL™ CERAMIC PRIMER (2ml)

PANAVIA™ F 2.0, Introductory Kit

- PASTE: 2.1g (1ml)
- OXYGUARD™ II (1.5ml)
- ALLOY PRIMER (1ml)
- ED PRIMER II Liquid A (1ml)
- ED PRIMER II Liquid B (4 ml)
- CLEARFIL™ CERAMIC PRIMER (2ml)

Available in four color shades
- TC (tooth color)
- Light (translucent)
- White
- Opaque

But not opaque. Affects dark tooth and tooth discolorations

Covers the underlying surface completely. Especially suitable for translucent/provisional crowns and all-ceramic crowns.

High demands and power
PANAVIA™ F 2.0 Anaerobic-curing universal resin cement – for high clinical demands and reliable cementations.
PANAVIA™ F 2.0 – your solution for reliable cementing.

The perfect match for an outstanding bond strength.

PANAVIA™ F 2.0 – properties and application

PANAVIA™ F 2.0 is a dual-cure resin cement with anaerobic properties. Thus, the excess paste of PANAVIA™ F 2.0 can be light-cured by conventional halogen or LED lights. The cement polymerizes from the adhesive interface. This is due to the polymerization accelerators in ED PRIMER II. The unique self-etching primer system reduces the polymerization stress on the adhesive interface. In consequence the optimal bond strength is guaranteed and the potential development of marginal gaps is reduced.

ED PRIMER II – the perfect prime and etch

The self-etching ED PRIMER II is an advanced development – a convenient one-step procedure for etching and priming. ED PRIMER II penetrates gently and effectively enamel and dentin in one step. That enables the perfect penetration by Kurasaki’s well-proven adhesive monomer MPS*. When PANAVIA™ F 2.0 contacts the etched ED PRIMER II surface, the paste which the light cannot reach is cured by self-curing reaction in anaerobic conditions (with the exclusion of oxygen).

Clinical case

For cementation of metal oxide ceramic restorations (e.g. zirconia), a silane treatment (2a,2b) is not required due to the adhesive monomer MPS included in the paste.

Clinical procedure

For cementation of metal oxide ceramic restorations (e.g. zirconia), a silane treatment (2a,2b) is not required due to the adhesive monomer MPS included in the paste.

Characteristics and advantages of PANAVIA™ F 2.0

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Advantages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal adhesive resin cement with proven high bond strength</td>
<td>Usage also for difficult clinical situations</td>
</tr>
<tr>
<td>Unique self-etching primer system</td>
<td>Mild etching leading to a reduction of post-operative sensitivity. A balance, low-adhesive primer accelerates the polymerization of the cement from the hard tissue surface to reduce the polymerization shrinkage stress.</td>
</tr>
<tr>
<td>Anaerobic properties</td>
<td>No time pressure even when cementing difficult restorations, of all ceramic and metal core, resin cores, metal restorations as well as endodontic post cementations.</td>
</tr>
<tr>
<td>Special surface coating technology with sodium fluoride</td>
<td>High mechanical strength remains even after releasing fluoride into tooth structures</td>
</tr>
<tr>
<td>No solvent necessary for intraoral restorations</td>
<td>Time saving due to bio-compatible technology</td>
</tr>
<tr>
<td>High mechanical strength even after releasing fluoride into hard tissue</td>
<td></td>
</tr>
</tbody>
</table>

Technical Data

<table>
<thead>
<tr>
<th>Shear Bond Strength</th>
<th>Human enamel</th>
<th>Human dentin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human enamel</td>
<td>24 N</td>
<td>25 N</td>
</tr>
<tr>
<td>Human dentin</td>
<td>19 N</td>
<td>23 N</td>
</tr>
<tr>
<td>Zirconia Crown*</td>
<td>15 N</td>
<td>14 N</td>
</tr>
<tr>
<td>Titanium (Titan 100)</td>
<td>30 N</td>
<td>30 N</td>
</tr>
<tr>
<td>Gold Alloy (Type IV)*</td>
<td>20 N</td>
<td>23 N</td>
</tr>
<tr>
<td>Silicon Nitride*</td>
<td>35 N</td>
<td>35 N</td>
</tr>
<tr>
<td>Titanium (Titan 100)</td>
<td>30 N</td>
<td>31 N</td>
</tr>
<tr>
<td>Porcelain (VITA E.MAX)</td>
<td>25 N</td>
<td>25 N</td>
</tr>
</tbody>
</table>

CERAMIC PRIMER

The newly developed CLEARFIL™ CERAMIC PRIMER is a one-bottle ceramide primer that contains MDP and ethanol. It maintains excellent post-operative sensitivity properties on ceramic restorations in a long-term storage through the optimum combination of those monomers. The monomers of this primer are similar to those of ED PRIMER II for bonding to metal or metal oxide ceramics, it also maintains the same curing agent (MPS*), which ensures a strong bond to silica-based ceramics.

Application

- Metal, metal alloys (e.g. gold alloy or titanium) |
- Metal oxide ceramics (e.g. zirconia) |
- Silicon nitride ceramics |
- Hybrid ceramics (e.g. ESTAtek™ (CaSi)) |
- Composites |

Indication

- Preparation of crowns, bridges, imlays, onlays and veneers made of metal, ceramic and composite restorations |
- Preparation of adhesives, bridges |
- Preparation of metal oxide, resin cores, nickel plate or glass fiber posts |
- Adhesive bonding |

Preparation of tooth structure and adhesive layer. Source: Kuraray Medical Co. Ltd.