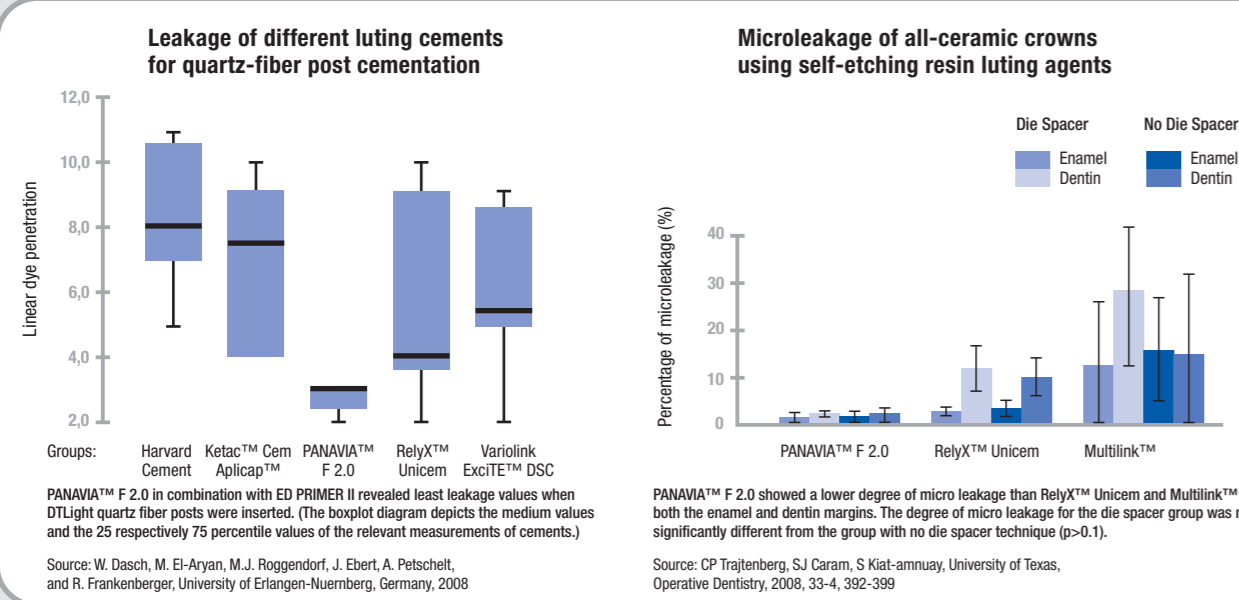
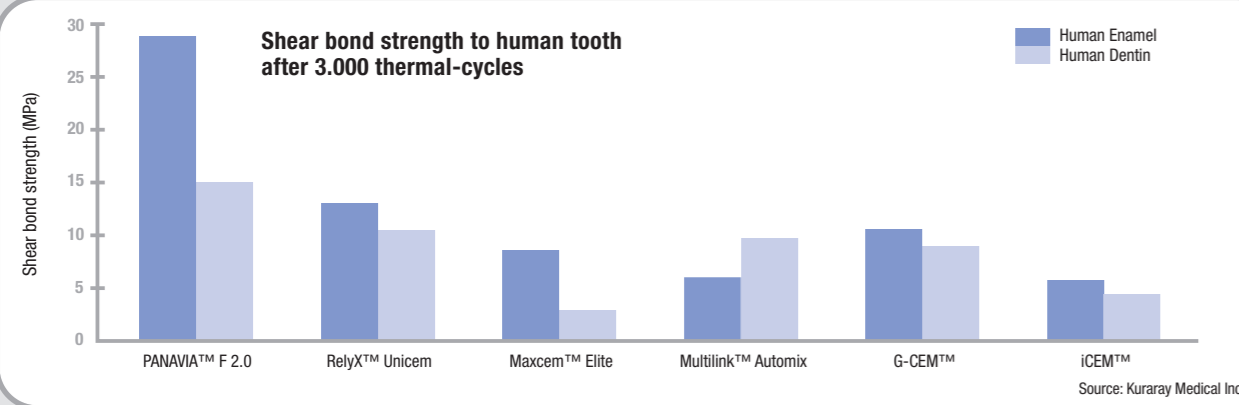
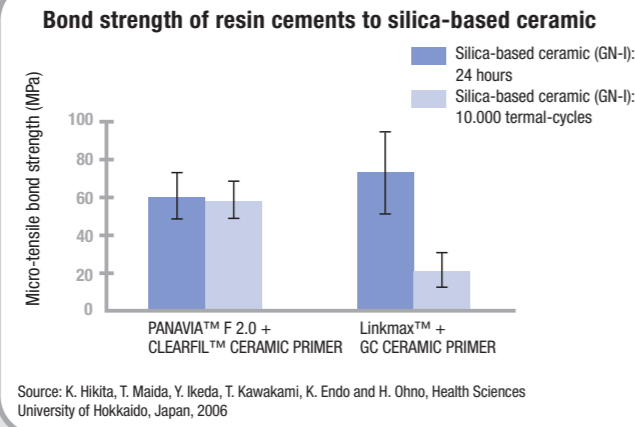
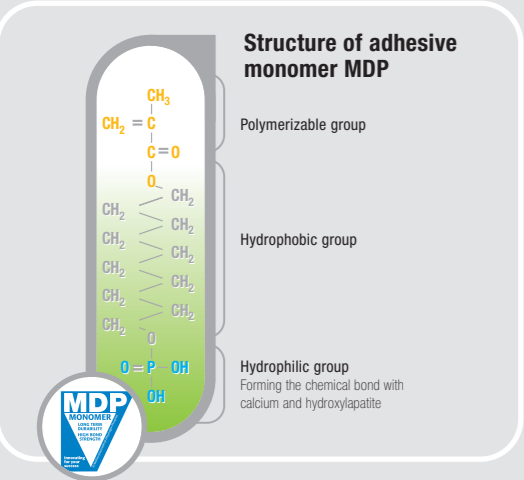


The excellent test results in detail.

Strong bond strength & consistent marginal integrity

Kuraray's unique adhesive monomer MDP in the primer creates a strong chemical bond to hydroxylapatite. Being in use for more than 20 years, the MDP has a proven excellence in

adhesion. It is a guarantee for a high bond strength and shows a reliable adhesion durability to the tooth structures.



PANAVIA™ F 2.0 order information

PANAVIA™ F 2.0: Kit

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



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

PANAVIA™ F 2.0: 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 ALLOY PRIMER (1 ml)
 - 1 OXYGUARD™ II (1.5 ml)
- Accessories: 1 mixing plate, 1 spatula, 1 mixing dish, 1 small brush holder, 50 disposable brush tips, 5 disposable nozzles, 1 light blocking plate

PANAVIA™ F 2.0: Refill

A PASTE

- # 493 EU (5.0 g/2.3 ml)

B PASTE

- # 494 EU TC (4.6 g/2.3 ml)
- # 497 EU Light (4.6 g/2.3 ml)
- # 495 EU White (4.6 g/2.3 ml)
- # 496 EU Opaque (4.6 g/2.3 ml)

ED PRIMER II

- # 491 EU Liquid A (4 ml)
- # 492 EU Liquid B (4 ml)

OXYGUARD™ II

- # 490 EU (6 ml)

OXYGUARD™ II Disposable Nozzles

- # 917 EU (5 pcs.)

CLEARFIL™ CERAMIC PRIMER

- # 2550 EU (4 ml)

K-etchant GEL

- # 013 EU (6 ml)

ALLOY PRIMER

- # 064 EU (5 ml)



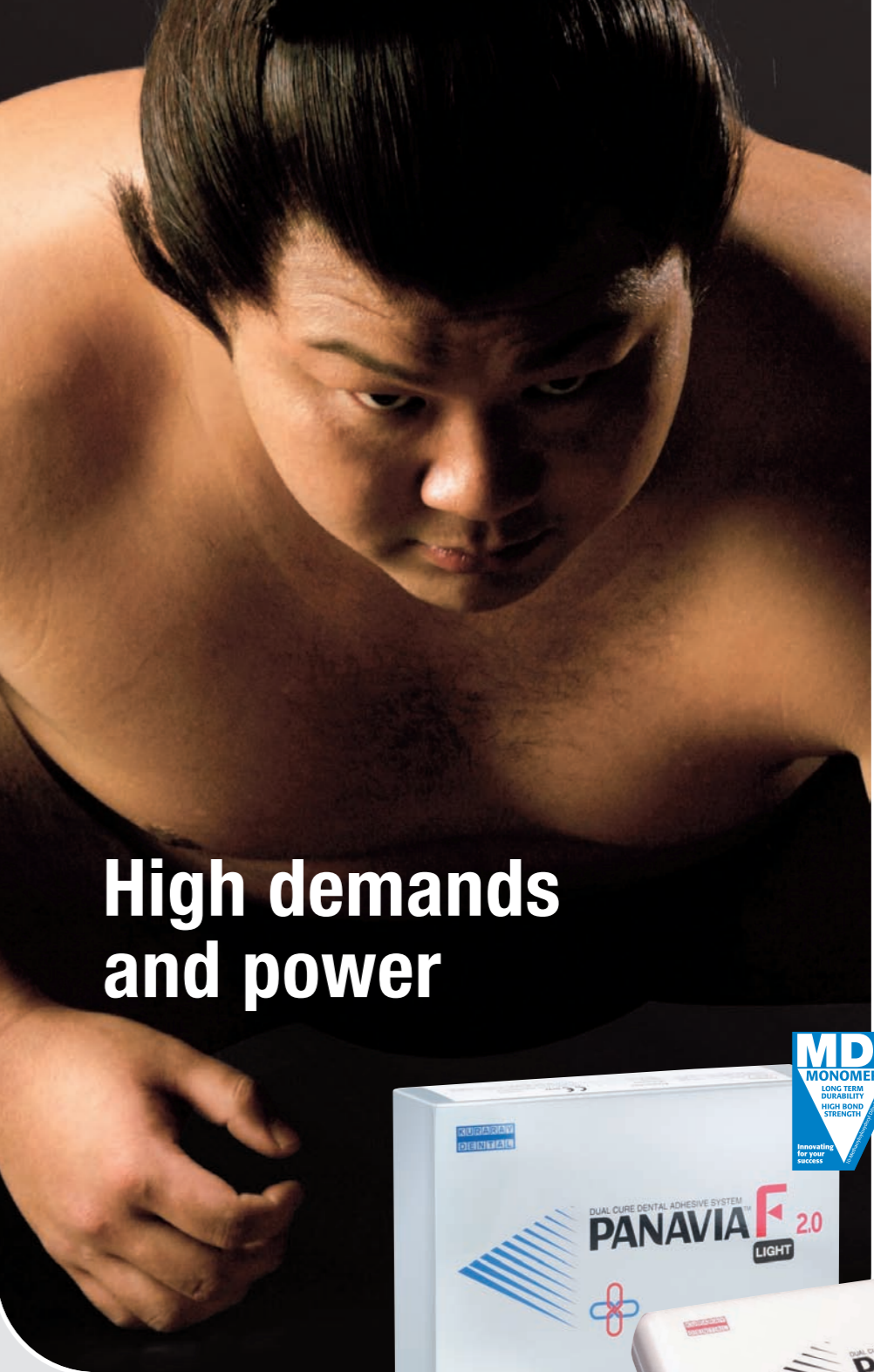
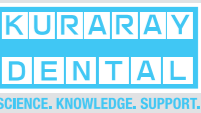
Available in four color shades

- **TC (tooth color)**
Color support for the natural tooth.
- **White**
But not opaque. Affects dark tooth and tooth discolorations optimally and naturally.
- **Opaque**
Covers the underlying surface completely. Especially suitable for precious/non-precious alloys and adhesion/Maryland bridges.

Contact

Kuraray Europe GmbH
Medical Products Division
Hoechst Industrial Park/F 821
65926 Frankfurt am Main
Germany

Telephone: +49-(0)69-305 35825
Fax: +49-(0)69-305 35625
E-mail: dental@kuraray.eu
Website: www.kuraray-dental.eu



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 unique anaerobic-curing resin cement

The PANAVIA™ brand looks upon a scientific and clinical track record of more than 20 years. Being recommended as the universal adhesive resin cement of first choice, PANAVIA™ is regarded as the guarantee for permanent adhesive techniques in the areas of high-quality and difficult restorations, of all ceramic and metal restorations as well as endodontic post cementations. PANAVIA™ F 2.0 is accepted as a premium product by leading universities, displaying a high bond strength to tooth structures, metals and ceramics. In combination with the self-

etching primer system, PANAVIA™ F 2.0 reduces post-operative sensitivity and provides consistently good results. The anaerobic-curing* properties which do not begin until direct contact has been made with the restoration (no more contact with oxygen) and the smooth consistency make PANAVIA™ F 2.0 a popular aid in daily practice due to the user's self-defined working time. Even after releasing fluoride, the cement maintains its high mechanical strength due to the special surface coating technology with sodium fluoride.

Characteristics and advantages of PANAVIA™ F 2.0

Characteristics

Universal adhesive resin cement with proven high bond strength

Unique self-etching primer system

Anaerobic properties

No silane-treatment necessary for zirconia restoration

Special surface coating technology with sodium fluoride

Advantages

Usage also for difficult clinical situations

Mild etching leading to a reduction of post-operative sensitivities. In addition, the catalyst system accelerates the polymerization of the cement from the tooth/cement interface to reduce the polymerization shrinkage stress.

No time pressure even when cementing difficult restorations due to long working time

Time saving due to less working steps

High mechanical strength remains even after releasing fluoride into tooth structures

*def. 'anaerobic': not using oxygen from the air (compare Oxford English Dictionary 2008)

Indication

- Cementation of metal/ceramic composite restorations (crowns, bridges, inlays, onlays and veneers)
- Cementation of adhesion bridges
- Cementation of endodontic cores and prefabricated posts
- Amalgam bonding

Application

- Metal, metal alloys (e.g. gold alloy or titanium)
- Metal oxide ceramics (e.g. zirconia)
- Silica-based ceramics
- Hybrid ceramics (e.g. ESTENIA™ C&B)
- Composites
- Metal or glass-fiber post

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 which the light cannot reach is cured by its self-curing reaction.

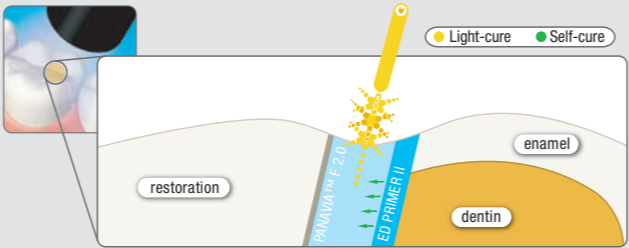
ED PRIMER II – the perfect prime and etch

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 the well-proven MDP*. When PANAVIA™ F 2.0 then contacts the dried ED PRIMER II surface, the paste polymerizes

from the adhesion interface. This is due to the polymerization accelerators in ED PRIMER II. The unique self-etching primer system reduces the polymerization stress on the adhesion interface. In consequence the optimal bond strength is guaranteed and the potential development of margin gaps is reduced. The result is a favorable clinical integration.

*MDP: Please see page 5

Dual-cure polymerization system with ED PRIMER II



ED PRIMER II – in brief

- Simplified pre-treatment: the self-etching ED PRIMER II enables the effective and gentle penetration of enamel and dentin in one step.
- Prevention of post-operative sensitivity through optimally harmonized, mild pH value (pH 2.4)
- Simple and forgiving handling through the water-based primer
- Chemical bond to the hydroxylapatite is created within the clinically relevant time period.

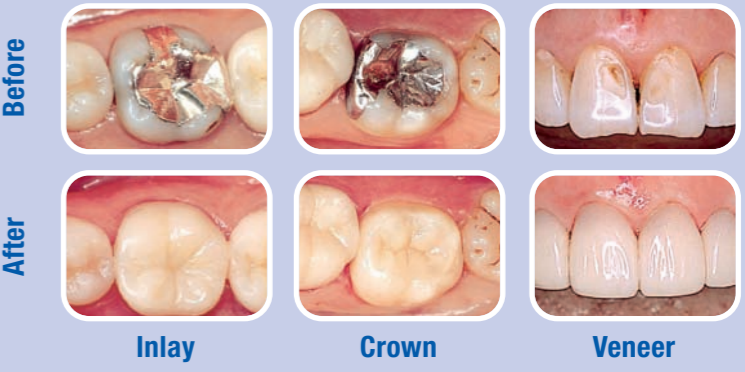
CLEARFIL™ CERAMIC PRIMER

The newly developed CLEARFIL™ CERAMIC PRIMER is a one-bottle ceramic primer that contains MDP, γ-MPS and ethanol. It maintains excellent adhesion properties on ceramic restorations in a long-term storage through the optimum combination of these ingredients. Besides the proven adhesive monomer MDP for bonding to metal or metal oxide ceramic, it also contains the silane coupling agent γ-MPS, which ensures a strong hold on silica-based ceramics.



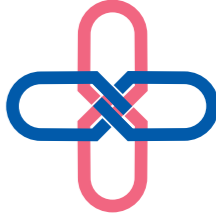
Convincing technical and clinical details.

Clinical case



Technical Data

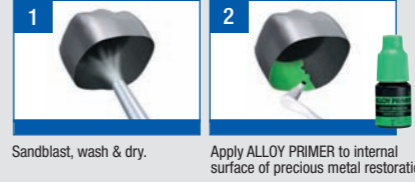
	Shear Bond Strength	
	24 hours	3000 thermal cycles
Human enamel	28.7 MPa	28.0 MPa
Human dentin	15.8 MPa	15.4 MPa
Zirconia (Cercon™)	43.4 MPa	34.4 MPa
Alumina (Procera™)	32.4 MPa	28.4 MPa
Gold Alloy (Type IV)*	28.0 MPa	32.3 MPa
Titanium (Titan 100)	38.8 MPa	37.6 MPa
Porcelain (VITA CELAY)**	24.9 MPa	25.7 MPa



*with ALLOY PRIMER.
**with CLEARFIL™ CERAMIC PRIMER
Source: Kuraray Medical Inc.

Clinical procedure

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



Cementation of ceramics/composite restorations



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

Common steps

