Simly create the PANAVIA™ smile!

PANAVIA™ V5
One cement. All cement indications.
One prime procedure.
SIMPLY CREATE THE PANAVIA™ SMILE
One cement. All cement indications. One prime procedure.

Just imagine cementing all of your prosthetics with one predictable procedure. Without stress when you need to cement precious veneers. And without studying complicated cementation guides. With our revolutionary PANAVIA™ V5 that is now possible. So from now on you enjoy all your cementation appointments.

Prime and roughen the prosthetic (1). Prime the tooth (2). Apply your cement (3). That’s it. There is no better way to durably cement your crown, single-wing cantilever bridge, core build-up and veneer. And if you work in a lab? Then you can be sure it’s the most reliable way to cement your implant abutments too.

All cement indications. One prime procedure. Are we serious? Yes! PANAVIA™ V5 is our strongest cement ever developed. And with five shades, our most esthetic one too. This makes a totally new kind of dentistry possible, where you can be confident during cementation. And your patients? They will surely be impressed by beautiful result of your prosthetic treatment.

Almost four decades of experience with the original MDP
Patented since 1981.

Kuraray Noritake Dental invented the original MDP monomer in 1981 to improve the bond strength to hydroxyapatite (HAp). The world’s first composite cement PANAVIA™ EX including the original MDP was launched two years later. That is when the legendary story of the PANAVIA™ brand began. And since then PANAVIA™ has become a synonym for reliable adhesion.

Besides bonding to hydroxyapatite, the original MDP strongly bonds to metals and zirconia, too. Some manufacturers have recently also started working with MDP in a number of adhesive products. But it is one of the most difficult ingredients to produce, especially when it comes to creating an MDP mixture with an outstanding quality level (see graph below). This requires decades of know-how, which is why not all “MDP” mixtures result in long-lasting restorations.

Our original MDP still proves to be the most durable HAp connector¹. And that is one of the secrets of PANAVIA™ V5’s primer performance.

Micro-tensile bond strength to dentin.¹

GREAT HANDLING. PREDICTABLE PROCEDURE.
Easy application. Easy seating. Easy clean-up.

Great handling is key to make your cement procedure predictable. Applying, seating and cleaning up the excess cement are just a few examples of where PANAVIA™ V5 makes your work easier.

Roughen and prime the prosthetic (1). Prime the tooth (2). Simply apply the pre-mixed PANAVIA™ V5 paste to your prosthetic (3). That’s it. Thanks to the automix syringe your procedure will be fast, simple and precise. With the optimized cement consistency you can position your prosthetic exactly where you want. The excess cement is cleaned-up within seconds. As a final step you directly light-cure the PANAVIA™ V5 paste to create a durable seal.

There is more to say about PANAVIA™ V5’s predictable procedure and great handling. The best way to find out? Try it out yourself.
PANAVIA™ V5 is our first composite cement with only one tooth primer. With this exclusive combination you achieve bond strength results similar to gold standard adhesive CLEARFIL™ SE BOND (graph 2, page 9). At the same time it also proves to be a beautiful cement (graph 1, page 8). Let’s look at the secret behind the durability and beauty of PANAVIA™ V5.

The moment our cement touches the PANAVIA™ V5 Tooth Primer the curing process is accelerated. We call it touch-cure. This invention leads to an extremely high polymerization degree. The original MDP in the PANAVIA™ V5 Tooth Primer and CLEARFIL™ CERAMIC PRIMER PLUS assures a durable bond. On the tooth and your prosthetic. Building stronger tooth-prosthetic integration you can imagine. Or implant-prosthetic integration if you like.

But cement durability is only half the story. For esthetic cementations the shade needs to remain stable. Unfortunately, conventional composite cements show discoloration over time. In order to keep the PANAVIA™ V5 cement shade stable we don’t use amine in the self-cure mode anymore. Thanks to the amine-free paste your most natural restorations stay beautiful.

1 Amine related to the self-curing process.
THE BEST CEMENTING STRATEGIES

The best pretreatments for virtually all cement indications.

Are you tired of looking into annoying instructions for use? Or do you spend too much time to find the right flow chart before cementing zirconia? To follow the best cementing strategies you need the best knowledge available. To keep it simple for you we summarized all you need in one infographic¹ (see on the right side).

Prime the tooth. Roughen and prime the prosthetic. Apply your cement. That’s it. Roughen the prosthetic? Yes. To get the most durable prosthetic cementation you definitely need to roughen the surface first. So in case of zirconia you sandblast it with 30/50 micrometer aluminumoxide particles with a low pressure. And just before final seating you prime and dry it with CLEARFIL™ CERAMIC PRIMER PLUS.

What about the tooth tissue pretreatment? Priming with the PANAVIA™ V5 Tooth Primer is the best thing you can do. And what about the pretreatment of all other indications? Just use the infographic to easily select the best pretreatment for all your indications. So you can focus directly on what you love to do. Cementing your prosthetics with peace of mind.

¹For a detail procedure please check the instructions for use.
Glass ceramics
Glass fiber posts
Composites

Tooth tissue,
Intra-oral composites
& metals
Uncut enamel,
adhesion bridges
& veneers

2. ONE PRIME PROCEDURE

- Apply & dry CLEARFIL™ CERAMIC PRIMER PLUS
- 20 sec. apply & dry PANAVIA™ V5 Tooth Primer
PANAVIA™ V5 produced significantly greater shear bond strength compared to Multilink Automix®, RelyX Ultimate® and NX3™ in the self-cure mode both at room temperature and at elevated temperature (37°C).«

Bond of Resin Cements to Tooth Substrates in Self-cure Mode, R. Radhakrishnan, J.O. Burgess, et al., IADR Meeting, 2015, Boston, Abstract #102

The amine-free resin cement showed less color variation with time than two amine-based cements.«

Color Stability of Amine-free Dental Cement, N. Xiang, J.O. Burgess, et al., IADR Meeting, 2015, Boston, Abstract #2339

It was indicated that experimental resin cement (HPC-100™) would be clinically effective because it showed high bonding performance with simple cementing method.«

Bonding Performance of Experimental Resin Cement (HPC-100™), R. Ishii, M. Miyazaki, et al., Nihon University, The 140th Meeting of the Japanese Society of Conservative Dentistry, 2014, Shiga, Abstract #P22

The independent and inhouse data shown here is a selection of available data. Please contact us for more scientific data. You are a researcher? After years of R&D we need your help to discover the full potential of PANAVIA™ V5. Contact us. We are happy to provide you with PANAVIA™ V5 for your research.
**TECH SPECS**

**WIDE INDICATION RANGE:**
- 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

**Filler loading:** 61 wt % (38 vol %)

**Flexural strength:** 127 MPa

**Flexural modulus:** 6.3 GPa

**Compressive strength:** 310 MPa

**Water sorption:** 21 µg / mm³

**Film thickness:** 12 µm

**Radiopacity:** 180 % AI

**Fluoride releasing (28 days):** 58 µg/g

**Working time (23°C):** 2 min.

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1 Source: Kuraray Noritake Dental Inc.
2 Dual curing of the paste combination of self- and light-curing.
4 Not a trademark of Kuraray Co., Ltd. See ISO regulations.

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**GRAPH 2: TENSILE BOND STRENGTH TO BOVINE DENTIN**

- PANAVIA™ V5 after 24h
- PANAVIA™ V5 after 4000 TC
- Other composite cements after 24h
- Other composite cements after 4000 TC
- CLEARFIL™ SE BOND after 24h
- CLEARFIL™ SE BOND after 4000 TC
ORDER INFO

1. PROFESSIONAL KIT - # 3600 EU
   PANAVIA™ V5 Tooth Primer (2 ml)
   CLEARFIL™ CERAMIC PRIMER PLUS (2 ml)
   PANAVIA™ V5 Paste [one syringe per shade (2.4 ml / 4.2 g): Universal (A2), Clear, Brown (A4), White, Opaque]
   PANAVIA™ V5 Try-in Paste [one syringe per shade (1.8 ml): Universal (A2), Clear, Brown (A4), White, Opaque]
   K-ETCHANT Syringe (3 ml), 30 Mixing tips, 10 Endo tips (S), 50 Applicator brushes (fine<silver>S)², 1 Mixing dish (FPN)², 20 Needle tips (E)²

2. STANDARD KIT - Universal (A2) # 3601 EU - Clear # 3602 EU
   PANAVIA™ V5 Tooth Primer (2 ml)
   CLEARFIL™ CERAMIC PRIMER PLUS (2 ml)
   PANAVIA™ V5 Paste [one syringe per shade (4.6 ml / 8.1 g): Universal (A2), Clear]
   K-ETCHANT Syringe (3 ml), 15 Mixing tips, 5 Endo tips (S), 50 Applicator brushes (fine<silver>S)², 1 Mixing dish (FPN)², 20 Needle tips (E)²

3. INTRODUCTORY KIT - Universal (A2) # 3604 EU - Clear # 3605 EU
   PANAVIA™ V5 Tooth Primer (2 ml)
   CLEARFIL™ CERAMIC PRIMER PLUS (2 ml)
   PANAVIA™ V5 Paste [one syringe per shade (2.4 ml / 4.2 g): Universal (A2), Clear], 10 Mixing tips, 50 Applicator brushes (fine<silver>S)², 1 Mixing dish (FPN)²

FIVE BEAUTIFUL SHADES²


²The letter code in brackets describes the exact type of accessory. ²The actual shades may differ from the printed shades here.
REFILL

1. PANAVIA™ V5 Tooth Primer (4 ml), #3635-EU
2. CLEARFIL™ CERAMIC PRIMER PLUS (4 ml), #3637-EU
3. PANAVIA™ V5 Paste (4.6 ml / 8.1 g), 20 Mixing tips
   Universal (A2) #3611-EU, Clear #3612-EU,
   Brown (A4) #3613-EU, White #3614-EU,
   Opaque #3615-EU
4. PANAVIA™ V5 Try-in Paste (1.8 ml),
   Universal (A2) #3621-EU, Clear #3622-EU,
   Brown (A4) #3623-EU, White #3624-EU,
   Opaque #3625-EU
5. K-ETCHANT Syringe (3 ml), 20 Needle tips (E), #3252-EU
   Mixing tip (20 Mixing tip), #3626-EU
   Endo tip (S) (20 Endo tip (S)), #3629-EU