

006 CS455-KAI



PANAVIA™ 21

Instructions for use

PANAVIA 21 is an advanced adhesive resin cement with improved dispensing, handling and bond strength properties.

PANAVIA 21 paste consists of Universal and Catalyst pastes, each being a low viscosity composite resin. It contains the adhesive monomer MDP (10-Methacryloyloxydecyl dihydrogen phosphate) which provides long-term bond strength between tooth structure and metal, silanated porcelain or composite.

ED PRIMER contains HEMA and 5-NMSA as well as MDP and consists of Liquid A and Liquid B. ED PRIMER, when applied to enamel and dentin, promotes a strong bond between PANAVIA 21 paste and tooth structure. Acid etching of dentin and cut enamel is not required with ED PRIMER; only uncut enamel is etched.

OXYGUARD II is a viscous gel used to block the oxygen from anaerobic setting PANAVIA 21 paste. Applied to the restoration's margin, it also contains a polymerization accelerator to provide more effective setting.

Refer to the instruction booklet in the kit prior to use.

INDICATIONS

- * Cementation of adhesion bridges or splints
- * Cementation of metal crowns, bridges and inlays/onlays
- * Cementation of silanated porcelain and cured composite crowns or inlays/onlays
- * Cementation of preformed posts or cast post and cores
- * Bonded amalgam restorations

CLINICAL PROCEDURES

SURFACE PREPARATION

A. Uncut enamel:

1. All uncut enamel areas should be etched twice with PANAVIA ETCHING AGENT V. Buccal surfaces should be etched for 30 seconds, washed and dried, then re-etched for 30 seconds. Lingual surfaces should be etched for 30 seconds, washed and dried, then re-etched for 60 seconds.

NOTE: It is not necessary to acid etch cut enamel or dentin surfaces when cementing with PANAVIA 21.

B. Cut enamel and dentin:

1. Dispense one drop of each ED PRIMER Liquid A and Liquid B into a well of the mixing dish and mix for three-five seconds. Using a small sponge pledget apply the mixture to the prepared tooth surface. After 60 seconds evaporate the volatiles with a gentle stream of air; the surface will appear glossy.

C. Metal:

1. Non-precious metals should be sandblasted with 30-50 micron alumina particles at an air pressure of 4.2-7 kgf/cm² (60-100 PSI); two to three seconds per cm² will remove the luster producing a matte finish.
2. Precious and semi-precious metals should be sandblasted as above and then tin-plated. A layer of tin approximately 0.5 microns thick should be deposited. To avoid contamination do not touch the tin-plated surface.
3. After sandblasting and after tin-plating, wash the casting in a stream of water for one minute then ultrasonically clean for two-three minutes in a neutral detergent solution.

D. Porcelain:

1. To maximize surface area, sandblast the internal surface with 30-50 micron alumina particles at an air pressure of 4.2-7 kgf/cm² (60-100 PSI) for two-three seconds per cm². Clean ultrasonically in water for two minutes.
2. Activate the roughened porcelain surface by applying PANAVIA ETCHING AGENT V for five seconds; wash and dry.
3. Silanate the internal surface of the restoration with CLEARFIL PORCELAIN BOND ACTIVATOR mixed with either CLEARFIL NEW BOND or CLEARFIL PHOTO BOND per their Instructions for Use.

E. Cured composite:

1. Activate the internal surface of the cured composite by applying PANAVIA ETCHING AGENT V for five seconds; wash and dry.
2. Silanate the internal surface of the restoration with CLEARFIL PORCELAIN BOND ACTIVATOR mixed with either CLEARFIL NEW BOND or CLEARFIL PHOTO BOND per their Instructions for Use.

USAGE OF PANAVIA 21 PASTE

1. Remove the syringe cap and slowly rotate the dispensing knob **ONE FULL TURN** clockwise until it clicks. If more PANAVIA 21 paste is required, dispense an additional **FULL TURN**.
NOTE: PANAVIA 21 paste must always be dispensed in increments of full turns.
2. Mix the dispensed Catalyst and Universal pastes for 20-30 seconds, creating a smooth, uniform paste. Because of PANAVIA 21's anaerobic properties, the mixture should be spread in a thin layer on the pad until ready to use.

(Continue)

SEATING THE RESTORATION, PREFORMED POST/CAST POST & CORE OR PLACING THE AMALGAM

A. Seating the restoration:

1. Apply a thin, even layer of PANAVIA 21 paste to the prepared, cleaned and dried internal surface of the restoration, being careful to avoid air entrapment.
NOTE: DO NOT additionally apply PANAVIA 21 paste to the tooth surface primed with ED PRIMER as this will accelerate the set of PANAVIA 21 paste.
2. Seat the restoration and apply finger pressure. After about 60 seconds release pressure and remove the excess PANAVIA 21 at the margins with a small disposable brush tip starting first with the proximal surfaces.
3. With a disposable brush tip apply OXYGUARD II to the margin. After three minutes remove the OXYGUARD II with a cotton roll and water spray.
4. Any slight excess of PANAVIA 21 remaining at the margin can be removed with an explorer or small scaler. The restoration can then be finished and polished with pumice and water.

B. Seating the Preformed Post or Cast Post and Core:

1. Apply a thick, even layer of PANAVIA 21 paste to the prepared, cleaned and dried post, being careful to avoid air entrapment.
NOTE: DO NOT additionally apply PANAVIA 21 paste to the canal primed with ED PRIMER as this will accelerate the set of PANAVIA 21 paste.
2. Seat the post and apply pressure for about 60 seconds.
3. a) If a cast post and core, remove the excess PANAVIA 21 and with a disposable brush tip apply OXYGUARD II to the margin. After three minutes remove the OXYGUARD II with a cotton roll and water spray.
b) If a preformed post, and amalgam or composite is being used as a build-up material, PANAVIA 21 expressed from the canal during post seating can be used as a cement for the build-up material.
4. Continue with normal abutment and crown procedures.

C. Placing the Amalgam:

1. Apply a thin, even layer of PANAVIA 21 paste to the entire cavity surface primed with ED PRIMER being careful to avoid entrapping air.
NOTE: Because ED PRIMER accelerates the set of PANAVIA 21, the PANAVIA 21 paste should be applied to the primed cavity quickly.
2. The triturated amalgam should be condensed onto the un-set PANAVIA 21 paste.
3. Occlusal carving can be accomplished in the normal manner.
4. Remove the matrix and clean the excess PANAVIA 21 paste from the proximal surfaces with a disposable brush tip.
5. Apply OXYGUARD II to the proximal and occlusal margins. After three minutes remove the OXYGUARD II with a cotton roll and water spray.
6. Any slight excess of PANAVIA 21 remaining at the margin can be removed with an explorer or small scaler. The restoration can then be finished in the normal manner.

Cautions and Recommendations

1. PANAVIA 21 paste and ED PRIMER must be stored at refrigerated temperatures when not in use; bring to room temperature before using.
2. Avoid exposure to direct sunlight or high temperatures.
3. PANAVIA 21 paste or ED PRIMER should be immediately removed from skin or clothing with an alcohol moistened cotton pledget.
4. PANAVIA 21 paste or ED PRIMER should be immediately flushed from the eye with copious amounts of water; consult a physician immediately.
5. PANAVIA ETCHING AGENT V should be immediately washed from the face or oral tissue with water.
6. PANAVIA 21 should not be used with any patients known to be hypersensitive to Methacrylate monomers.
7. OXYGUARD II can be removed from the hands, face or clothing with a water moistened cotton pledget.
8. The use of protective gloves is recommended during the handling and use of PANAVIA 21.
9. The syringe cap of the dispenser should be replaced as noted in the insertion guide.
10. When using hemostatics containing ferric compounds, the hemostatics should be washed out completely before applying ED Primer. If such hemostatics are allowed to remain, they may cause discoloration in the adhesive layer or surrounding gingiva.

SHELF LIFE:

USE BEFORE EXPIRY DATE.

CAUTION:

Federal (U. S. A) law restricts this material to sale by or on the order of a licensed dentist.

WARRANTY:

Kuraray Noritake Dental Inc. will replace any product that is proved to be defective. Kuraray Noritake Dental Inc. does not accept liability for any loss or damage, direct, consequential or special, arising out of the application or use of or the inability to use these products. Before using, the user shall determine the suitability of the products for the intended use and the user assumes all risk and liability whatsoever in connection therewith.

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