

## INSTRUCTIONS FOR USE

# DUALAFIX

## Resinous Cement

### 1. PRODUCT DESCRIPTION

DualAFix Resinous Cement is a double curing adhesive cement (photoactivated and chemical), developed for professional use, recommended for fixing intraradicular posts and restorations of the dental structure. The product is composed of a Base and a Catalyst, which must be mixed in a 1:1 ratio. DualAFix is available in A1, A2, A3 and Transparent colors.

### 2. PRESENTATION

- Single body syringe with 2.5 g of Base Paste (A1, A2, A3 or Transparent) and 3 tips;
- Single body syringe with 2.5 g of Catalyst Paste and tips;
- Double body syringe with 2.5 g of Base Paste (A1, A2, A3 or Transparent) and 2.5 g of Catalyst Paste and 5 tips.

### 3. COMPOSITION

Base - Methacrylate monomers, silanized barium aluminosilicate glass microparticles, initiator, co-initiators, inorganic pigments and stabilizer.

Catalyst - Methacrylate monomers, silanized barium aluminosilicate glass microparticles, dibenzoyl peroxide and stabilizer.

### 4. INDICATION OF USE

DualAFix Resinous Cement is indicated for adhesively bonding indirect restorations or posts to the tooth structure. For fixing: pure porcelain or metal-ceramic crowns and bridges. Inlays, onlays, ceramic crowns and laboratory resin crowns. Fiberglass, carbon fiber, ceramic or metal root posts. Adhesive dentures (Maryland bridges).

### 5. CONSERVATION/ STORAGE

Keep the product in its packaging always closed. Store in a dry place, protected from direct sunlight, at temperatures between 5 °C/41 °F and 30 °C/86 °F. Avoid contact with materials containing eugenol.

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#### Tooth preparation:

1. Isolate the tooth and use a retraction system when the margin is below the gum to avoid

contamination of the preparation.

2. Clean the preparations properly with Pumice Stone AF do BRASIL and Cup for Prophylaxis AF do BRASIL, condition the enamel for 30 seconds and the dentin for 15 seconds with 37% CONDAAF Phosphoric Acid Gel. Rinse thoroughly with water for 10 seconds or until the acid is completely removed. Dry the preparation slightly with air, leaving the fabric damp.
3. Apply the adhesive system according to the manufacturer's instructions and proceed with photoactivation. Dual resin cements are incompatible with single-step self-etching acid adhesives, as high acidity compromises chemical curing.

#### Cementation of Porcelain, Metal-ceramic or Resin Crowns:

1. The porcelain or metal-ceramic piece must be previously treated with an aluminum oxide jet by the laboratory to create microporosities on its internal surfaces. For resin parts, microporosities can be made with drills or an aluminum oxide jet. Condition the internal part of the porcelain piece with 10% Hydrofluoric Acid AF do BRASIL, as recommended by the manufacturer. Rinse thoroughly and dry.
2. Apply Silano AF do BRASIL to the internal face of the prosthetic part and wait 1 minute. Dry the surface with air.
3. Select the appropriate DualAFix color and mix the pastes in a 1:1 ratio.
4. Apply a thin layer of DualAFix to the internal face of the part or the cavity.
5. Position the piece on the tooth and remove excess cement after about 2 minutes. Photopolymerize the margins.
6. Keep the piece in position and start removing excess cement after approximately 2 minutes of mixing the pastes. If the excess is removed immediately after placing the piece, the margins must be light-cured to avoid the effect of the oxygen-inhibited layer. For restorations with minimal retention, keep the piece fixed during the process of cleaning excess cement.

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7. After removing excess cement, light cure each surface and margins for 40 seconds, or allow chemical curing to continue for up to 10 minutes after mixing the pastes. Note: For porcelain and composite resin pieces, the margins can be light-cured for 40 seconds to ensure immediate fixation of the piece.
8. Polish for the final finish. Note: After light-curing the restorations and margins, remove excess with a scalpel. Avoid using rotating instruments before the cement has completely cured, which occurs within 10 minutes after mixing the pastes, depending on the temperature.
9. Instruct the patient not to apply force to the restoration for 20 minutes after fixing the piece.

### Cementation of intradicular cores:

1. Prepare the endodontically treated tooth to receive the post, adjusting the canal and post as needed.
2. Condition the enamel for 30 seconds and the dentin for 15 seconds with CONDAAF 37% Phosphoric Acid Gel. Rinse thoroughly with water, ensuring complete removal of the acid. Dry the canal with a paper cone and dry the dentin and coronal enamel with a jet of air, avoiding dryness.
3. Apply the adhesive with a disposable micro-applicator, rubbing it into the root canal for 15 seconds to cover the walls with a thin layer of adhesive. Make sure there is no excess adhesive in the channel. Follow the manufacturer's instructions to evaporate the solvent and perform photoactivation. Note: DualAFix is not compatible with single-step self-etching adhesives.
4. Prepare the root post by applying a layer of Silane AF do BRASIL and wait 1 minute. Dry the surface with light jets of air.
5. If using DualAFix in a simple syringe, dispense the appropriate amount of Base Paste and Catalyst Paste onto a plate or mixing block in a 1:1 ratio, and mix the pastes for 10 seconds with a spatula. If using DualAFix in a double body syringe, use the disposable self-mixing tip to dispense and mix the pastes. Apply a thin layer of cement along the post or inside the prepared root canal using suitable instruments.
6. Position the post in the root canal. Begin the cleaning process approximately 2-3 minutes after

mixing the cement. Light cure for 40 seconds on the occlusal surface to fix the post in the desired position. The use of translucent posts facilitates the passage of light inside the canal and the curing of the resin cement along the post. However, the chemical cure of DualAFix ensures the fixation of opaque posts.

7. Proceed with reconstruction of the coronal part of the tooth. Note: To accelerate the product's curing process, light-polymerize the DualAFix for at least 40 seconds using halogen or LED light equipment with a power density equal to or greater than 400 mW/cm<sup>2</sup> and blue light emission spectrum (400-500 nm)..

### 7. CONTRAINDICATIONS

Do not use in patients with hypersensitivity to any component of the formula.

### 8. WARNINGS

Product for professional use only. Do not use cements or materials containing eugenol, as they interfere with polymerization. Wear protective glasses during photoactivation. DualAFix is incompatible with single-step self-etching acid adhesives. Discard the applicator tips after use. Do not store near materials with eugenol. Do not use the expired product. Keep out of the reach of children.

### 9. SPECIAL CARES

Avoid applying the product to the gums of patients who have recently undergone any type of oral surgical procedure or who have any type of gum irritation. Incomplete polymerization of the product or excessive time may lead to mild gum irritation in some cases. May cause irritation in contact with the dental pulp. Protect with cavity lining or base if there is pulp exposure. May cause skin sensitization. Wash immediately with soap and water in case of contact. Suspend use in case of allergic reactions. Check that the syringes are closed correctly.

### 10. ADVERSE EFFECT

To date, there is insufficient clinical data on adverse effects.

### 11. SHELF LIFE

DualAFix Resinous Cement AF do BRASIL is valid for 2 (two) years after the date of manufacture.