

ENGLISH

Presentation:

Single syringe with 2.5 g of Base Paste, available in colors A1, A2, A3 and Transparent.

Single syringe with 2.5 g of Catalyst Paste.

Double-body syringe containing 5 g of Base Paste + Catalyst Paste.

Available in colors A1, A2, A3 and Transparent.

Description: Dual Force is a dual-cure resin cement (photo-activated and chemical), for professional use, suitable for adhesive cementation of intraradicular posts and restorations to the dental structure. The product consists of Base Paste + Catalyst Paste, which should be used in a 1:1 ratio. Dual Force is available in colors A1, A2, A3 and Transparent.

Indication: Dual Force is suitable for the cementation of: Dental crowns and bridges made of full porcelain or metal-ceramic. Inlays, onlays, ceramic crowns and laboratory resin crowns. Root posts of glass fiber, carbon fiber, ceramic or metallic. Adhesive prostheses (Maryland bridges).

Composition:

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

Catalyst Paste - Methacrylate monomers, silanized microparticles of aluminosilicate barium glass, benzoyl peroxide and stabilizer.

Mode of use:

Tooth preparation: 1. Isolate the tooth and use a retraction system when the margin is subgingival to ensure that contamination of the preparation does not occur. 2. Properly clean the preparations with pumice and prophylaxis bowl, condition the enamel and dentin for 15s with 37% phosphoric acid (Acid Gel 37% phosphoric, Maquira). Rinse with plenty of water for 10s, or until the acid is completely removed. Dry the preparation slightly with air leaving the tissue moist. 3. Apply the adhesive system according to the manufacturer's instructions and proceed with photoactivation. Dual resin cements are incompatible with acid adhesives classified as single step self-etch adhesives which due to their high acidity, compromise the chemical cure (self-curing) of resin cements.

Cementation of Total Porcelain, Metal-ceramic or Total Resin Crowns: 1. The total porcelain or metal-ceramic part must be previously subjected to aluminum oxide jet treatment by the laboratory to generate surface microporosities on its internal surfaces and, in the case of total resin parts, the microporosities can be made with drills or jet of aluminum oxide. Condition the internal part of the porcelain part with hydrofluoric acid gel (5% Hydrofluoric Acid Gel or 10% Hydrofluoric Acid Gel, Maquira), according to the acid concentration and application time specified by the porcelain manufacturer. Rinse with plenty of water until the hydrofluoric acid is completely removed and then dry. 2. Part silanization: Apply Silane (Silane, Maquira) on the internal face of the prosthetic part with the aid of a disposable micro applicator and wait 1 min. Dry the surface with light air jets. 3. Select the appropriate Dual Force color for part cementing. If using Dual Force in a single syringe, dispense the proper amount of Base Paste and Catalyst Paste on the mixing plate or block, in the proportion 1:1, and mix the pastes for 10 s with a spatula. In case of using Dual Force in a double body syringe, use the disposable self-mixing tip to provide and mix the pastes. 4. Apply a thin layer of Dual Force to the inner side of the part or over the cavity, covering the entire surface. 5. Position the part on the tooth carefully allowing the cement to drain slowly from all edges. 6. Keep the part in position and start cleaning the excess cement after 2 min from the beginning of the paste mixture. If the excess cement is removed immediately after positioning the part, the margins must be photoactivated to prevent the effect of the oxygen-inhibited layer. In the case of minimally retentive restorations, position the part and keep it fixed during the excess cement cleaning process. 7. After removing excess cement, light cure each surface and margins for 40s or allow the chemical curing to continue until 10 min of the paste mixture. Note: For porcelain and composite resin parts, the margins can be light cured for 40s to ensure immediate fixation of the part. 8. Polish for the final finishing. Note: After light curing the restorations and margins, remove the excess using a scalpel. The use of rotating instruments should be avoided before the cement has completely cured, which occurs within 10 min after mixing the pastes, depending on the temperature. 9. Instruct the patient not to exert forces on the restoration until 20 min after fixing the part.

Cementation of Intra-radicular cores: 1. Prepare the endodontically treated tooth to receive the post by dimensioning the canal and the post. 2. Condition the enamel and dentin for 15s with 37% phosphoric acid gel (37% phosphoric Acid Gel, Maquira). Rinse with plenty of water, make sure all the acid has been removed. Dry the canal with the aid of a paper cone and dentin and coronal enamel with air jet, without drying out. 3. Apply the adhesive with the aid of a disposable micro applicator by rubbing it in the root canal for 15s, to cover the walls with a thin layer of adhesive. Make sure there is no adhesive deposition on the canal. Follow the manufacturer's instructions for evaporating the solvent with air and light curing time. Note: Dual Force is incompatible with single step self-etch adhesives as they compromise chemical cure. Three-step (Acid + Primer + Adhesive) or two-step (Acid + Primer / Bond or Acid / Primer + Bond) adhesives are indicated. 4. Prepare the root post (Fiber Post, Maquira) by applying a layer of Silane (Silane, Maquira) and wait for 1 min. Dry the surface with light air jets. 5. In the case of using Dual Force in a single syringe, dispense the proper amount of Base Paste and Catalyst Paste on the mixing plate or block, in a 1:1 ratio, and mix the pastes for 10 seconds with a spatula. In case of using Dual Force in a double body syringe, use the disposable self-mixing tip to provide and mix the pastes. Apply a thin layer of cement along the post, or even inside the root canal prepared with the aid of suitable instruments. 6. Position the post in the root canal. Start the cleaning process approximately 2-3 min after mixing the cement. Light cure for 40s on the occlusal surface to fix the post in the desired position. The use of translucent posts facilitates the passage of light into the canal and curing the cement along the post. However, the Dual Force chemical cure guarantees the fixation of opaque posts. 7. Reconstruct the coronary part of the tooth. NOTE: To accelerate the curing process of the product, light cure Dual Force for at least 40s with halogen or LED light equipment with power density equal to or greater than 400mW/cm² and blue light emission spectrum (400-500 nm).

Warnings and Precautions: • Product for professional use only. • The product may cause some level of irritation if in contact with the dental pulp and/or very close to it. Protect the pulp with a lining material or cavity base if the cavity has pulp exposure. • Do not use material containing Eugenol as a base to prevent insufficient surface curing. • Do not use this product with temporary cements containing eugenol, as this inhibits the polymerization reaction. • Dual Force contains polymerizable monomers that can cause skin sensitization (allergic contact dermatitis) in susceptible individuals. After contact, immediately wash the area with soap and water. If irritation persists, seek medical attention. • Dual Force contains methacrylates which can be irritating to the eyes. In case of contact, rinse immediately with large amounts of water and seek medical assistance. • In case of allergic reactions, discontinue the use immediately. • Check correct syringe closure after use. • Wear protective goggles when using a light-curing unit. • Dual Force is incompatible with acid adhesives classified as single-step self-etch adhesives. The high acidity of these adhesives compromises the chemical cure of resin cements. • To avoid cross infection, do not reuse applicator tips. • Self-mixing tips should be discarded after use. • Do not store the product close to materials containing Eugenol, as they may inhibit the proper polymerization of the adhesive. • Do not use the product after its expiration date. • Keep out of reach of children.







Storage and Conservation Conditions: Store the product in a dry place, protected from light and at a temperature between 5°C/41°F and 25°C/77°F. Do not store Dual Force close to materials that contain Eugenol, as they may inhibit proper polymerization of the product. The validity period of the product is 2 years.

maquira

DUAL FORCE

Cimento resinoso

Simbologia | Symbology | Simbología

	Consultar as informações de segurança, perigos e precauções. Consultar las informaciones de seguridad, peligros y precauciones. Consult the safety, danger and precautions information.
	Manter seco Mantener seco Keep dry
	Ver as instruções de uso Leer las instrucciones de uso Read the instructions of use
	Manter ao abrigo do sol Mantener al abrigo del sol Keep sheltered from sunlight
	Papel reciclável Recyclable paper Paper recyclable
	Limites de temperatura Límites de temperatura Temperature limite



Fabricado por / Manufactured by:
MAQUIRA INDUSTRIA DE PRODUTOS
ODONTOLÓGICOS S.A.
CNPJ: 05.823.205/0001-90
Av. Melvim Jones, 773
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Farm. Responsável
Responsible Pharm
Responsable Farm.:
Kellen Dib de Campos
CRF/PR 15.807

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