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TECHNICAL DATA SHEET

PORTUX 3D AISLANTE/PORTUX 3D INSULATOR

DPFTPT-166

1. PRODUCT OVERVIEW

A versatile insulator with a fast-drying time and moderate viscosity, ideal for application, it has a translucent appearance to prevent staining of parts. Specifically formulated to prevent adhesion between 3D printed models and mobile parts or structures built on top of them, it is based on self-, thermo-, and even light-curing acrylic resins. This facilitates the separation process, which will prevent part fracture and, worse, the loss of the work done.

2. COMPOSITION INFORMATION

- Biocompatible polymer
- Aqueous solvent
- Low molecular weight alcohols
- Free radical inhibitor
- Plasticizer

3. PRODUCT PROPERTIES

- Viscosity: 2000-3000 Cp.
- Drying time: 15-20 minutes
- Appearance: Translucent
- Odor: Solvent
- Surface tension: 29.5 dyn/cm at room temperature
- Thickness of formed films: 10-20 μm
- Solubility in water: Soluble
- Stability level: High.

4. USE AND APPLICATIONS

Suitable for preventing adhesion between 3D models and mobile devices built from auto, thermo, and photopolymerizable acrylic resins.

5. PRODUCT QUALITY ASSURANCE

Internally, New Stetic SA has strict standardized internal controls in the manufacturing of its products, in order to guarantee optimal quality for the customer.

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In addition, it has qualified personnel in the Quality Control area, where compliance with final product specifications is verified in accordance with established regulations. It also relies on physical resources such as calibrated equipment.

6. INSTRUCTIONS FOR USE

For self- and light-curing parts

Apply a thin layer of release agent to the 3D printed model using a soft-bristled brush to ensure even distribution of the product across the entire surface. After application, wait 15 minutes to allow the applied layer to dry. If a shorter drying time is required, you can gently blow compressed air over the treated surface of the model, taking care not to deform or remove the release agent layer.

For thermo-polymerizable parts

Apply a thin layer of release agent to the 3D printed model using a soft-bristled brush to ensure even distribution of the product across the entire surface. Let it dry for 5 minutes, then apply a second thin layer. Let it dry for 15 minutes, or if a shorter drying time is required, you can gently blow compressed air onto the treated surface of the model, taking care not to deform or remove the release agent layer.

Post-application instructions:

To remove the structures manufactured on the printed model, it is suggested to use a rigid and thin spatula, which generates a lever force that facilitates its separation.

For the specific case of self-polymerizing resins, it is suggested that the spatula be introduced palatally/lingually so that the applied force is more efficient, see image 1.

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Image 1. Separation between the 3D model and a retainer constructed from self-polymerizing acrylic.

7. COMMERCIAL PRESENTATIONS

Portux 3D insulation is commercially available in 50 and 100 gram containers.

8. STORAGE AND PRESERVATION CONDITIONS

The product must be stored at a temperature not exceeding 30°C (86°F), keeping it in its original packaging and protecting it from the following conditions.

- Direct exposure to sunlight or LED.
- Sources of high heat or humidity.
- Dust or other type of contaminant.

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