MARMO SOLUTIONS
MARBLE & TILE SOLUTION PRODUCTS



TECHNICAL DATA SHEET

Product Name: MARMOPOXY-ECO

Registered Office:
MARMO SOLUTIONS PVT. LTD.
(AN ISO 9001:2015 CERTIFIED COMPANY)
MUMBAI: 47A, Ground And First Floor, Parmar Compound, Highway Road, Vile Parle East, Mumbai – 400099
DELHI : WHS, 1/18, 2nd Floor Kirti Nagar, Near Richi Rich, New Delhi - 110015
Customer No: +91 11 40586081
Web.: www.marmosolutions.com
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E-Mail: info@marmosolutions.com
CIN : U74140DL2013PTC252178
E-Mail ID: info@marmosolutions.com
Office hours: Monday to Saturday (10AM-6PM)

1. Product Description:

Marmopoxy-Eco is a two-component, 2:1 ratio low viscosity epoxy designed for filling pits and cracks in all types of stone (except white marble). Its economical formulation makes it ideal for large-scale and commercial projects, providing excellent bonding and strength.

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2. Product Features:

- **Low Viscosity:** Low viscosity consistency for deep penetration into cracks, holes and pits.
- **Slight Yellowing Over Time:** Ideal for use on colored stones where slight yellowing is not a concern.
- **Excellent Bond Strength:** Provides high mechanical strength and strong adhesion to stone surfaces.
- **Versatile:** Suitable for various colored stones, but not recommended for white marble.
- **Economical:** Formulated to offer cost-effective solutions for large commercial and industrial projects.

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3. Applications:

- **Crack Filling:** Ideal for repairing pits and cracks in colored stones.
- **Pinhole and Pit Repair:** Effective in filling surface imperfections like pinholes and pits.
- **Stone Restoration:** Suitable for both interior and exterior applications, providing long-lasting durability.

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4. Technical Specifications:

- **Component Type:** Two-component epoxy system
- **Mixing Ratio: 2**:1 (Resin: Hardener by weight)
- **Viscosity:** low viscosity, water-like consistency
- **Pot Life:** 30-40 minutes at 25°C
- **Initial Cure Time:** 10-12 hours at 25°C
- **Full Cure Time:** 24 hours at 25°C
- **Elongation at Break:** ≥ 5%
- **Bond Strength:** ≥ 3 N/mm² (on stone surfaces)
- **UV Resistance:** Moderate (slight yellowing over time)
- **Service Temperature Range:** -10°C to +70°C
- **Shore D Hardness:** ≥ 75
- **Chemical Resistance:** Resistant to water, chemicals and alkalis
- **Shelf Life:** 12 months in original, unopened packaging
- **Packaging:** Available in 1 KG Resin + 0.5 KG Hardener
  2 KG Resin + 1 KG Hardener

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5. Application

1. Surface Preparation:

• Clean the surface to be treated, ensuring it is dry and free of dust, oil, and contaminants.

• Use suitable cleaning agents to prepare the surface for optimal adhesion.

2. Mixing Instructions:

• Mix the resin and hardener in a 2:1 ratio by weight.

• Stir 3-4 min thoroughly to ensure a homogenous mixture.

3. Application:

• Apply the mixed Marmopoxy-Eco into the cracks, pits, or pinholes using a brush or spatula.

• Ensure the product flows evenly into the defects, filling them completely.

• For larger cracks, apply in layers to ensure full coverage and optimal bonding.

4. Curing:

• Allow the product to cure for 12 hours before light use.

• Full mechanical strength is achieved after 24 hours.

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6.DO'S & DON'TS

• DO'S

• Ensure the stone surface is clean, dry, and free from dust, oil, and contaminants before application.

• Clean joints and cracks thoroughly before filling to ensure proper adhesion.

• Stir the mixture for 2–3 minutes using a mechanical mixer until a uniform blend is obtained.

• Apply the epoxy using a trowel for precise filling of joints or cracks.

• Allow the repair to cure for at least 24 hours before applying loads or further treatments.

• Allow up to 7 days for full mechanical strength.

• Press the material firmly into gaps to avoid air pockets and ensure proper bonding.

• DON'TS

• Do not apply on wet, damp, or contaminated surfaces.

• Do not alter the 2:1 mixing ratio of resin and hardener.

• Do not use the product on white marble, as slight yellowing may occur over time; the product is recommended for coloured stones.

• Do not apply excessively thick layers in one application.

• Do not disturb the filled area before the initial curing time.

• Do not expose the repaired surface to heavy loads before full curing.

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7. Storage and Handling:

- Storage: Store in a cool, dry place between +5°C and +25°C. Keep the product sealed and protected from direct sunlight.
- Handling: Use appropriate personal protective equipment, including gloves and eyewear. Ensure proper ventilation when using in enclosed spaces.

Health and Safety:

- **Precautionary Measures:** Avoid skin and eye contact. In case of contact, rinse thoroughly with water and seek medical attention if needed.
- **Disposal:** Dispose of any unused product and packaging in accordance with local environmental regulations.

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