MARMO SOLUTIONS
MARBLE & TILE SOLUTION PRODUCTS

TECHNICAL DATA SHEET



Product Name: MARMOPOXY-ECOGEL

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

For any query/feedback

E-Mail: info@marmosolutions.com

CIN : U74140DL2013PTC252178

E-Mail ID: info@marmosolutions.com

Office hours: Monday to Saturday (10AM-6PM)

1. Product Description:

MARMOPOXY-ECOGEL is a premium two-component, solvent-free epoxy resin adhesive designed for high-strength bonding of natural stone, engineered stone, ceramic, and other construction materials. Its neutral-coloured gel formulation provides excellent workability and non-sag performance, making it ideal for both horizontal and vertical applications.

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2. Product Features:

- Two-Component System- Easy-to-mix 1:1 by weight ratio of resin and hardener.
- Solvent-free and low-odour formulation.
- Neutral colour suitable for most stone types.
- Non-sag gel consistency for vertical applications.
- High mechanical bond strength.
- Excellent resistance to moisture and chemicals.
- Low shrinkage after curing.
- Easily machinable and polishable after curing.
- Suitable for interior and exterior applications.

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3. Applications:

- **Joint Filling:** Suitable for filling joints in stone, concrete, and masonry surfaces.
- **Crack Repair:** Ideal for filling and repairing cracks in floors, walls, and structural components.
- **Surface Restoration:** Can be used to repair surface defects in natural stones and other substrates.
- **Colouring:** Blend pigment carefully to achieve a precise match with the surface color for a seamless finish.

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4. Technical Specifications:

- **Component Type:** Two-component epoxy system
- **Mixing Ratio:** 1:1 (Resin: Hardener by weight)
- **Packaging:** Available in 1 KG Resin + 1 KG Hardener
- **Pot Life:** 30-45 minutes at 25°C
- **Initial Cure Time:** 6-8 hours at 25°C
- **Full Cure Time:** 24 hours at 25°C
- **Density:** 1.45 ± 0.10 g/cm³
- **Application Thickness:** 0.5 mm to 3 mm
- **Compressive Strength:** ≥ 70 N/mm² (after 7 days)
- **Tensile Strength:** ≥ 25 N/mm² (after 7 days)
- **Shrinkage:** Negligible
- **Service Temperature Range:** -10°C to +35°C
- **VOC Content:** Solvent free
- **Chemical Resistance:** Resistant to water, oils, acids, and alkalis
- **Shelf Life:** 12 months in original, unopened packaging

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5. Application

1. Surface Preparation:

• Clean the surface thoroughly, removing all dust, grease, oils, and loose materials.

• Ensure the substrate is dry and free from any contaminants that may affect adhesion.

2. Mixing Instructions:

Mix Part A and Part B in a 1:1 ratio by weight until a uniform colour and consistency are achieved. Avoid partial mixing.

3. Application:

Apply the mixed adhesive evenly using a spatula or notched trowel.

Assemble the bonded components immediately while the product remains workable.

Support or clamp heavy components until sufficient curing has occurred.

4. Curing:

Allow the adhesive to cure before grinding, machining, or polishing.

Typical curing time:

Initial Set: 6–8 Hours

Full Cure: 24 Hours at 25°C

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6.DO'S & DON'TS

• DO'S

• Do ensure all bonding surfaces are clean, dry, and structurally sound before application.

• Do mix Part A and Part B thoroughly in the recommended 1:1 ratio until a uniform colour is achieved.

• Do use clean mixing tools and containers.

• Do apply the product within its specified working time.

• Do support or clamp heavy stone pieces until adequate curing has occurred.

• Do remove excess adhesive before it hardens.

• Do allow full curing before grinding, polishing, or loading the bonded assembly.

• Do perform a trial application on sensitive stones before large-scale use.

• Do store the product in its original tightly sealed containers.

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• DON'TS

• Do not alter the recommended mixing ratio.

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

• Do not add solvents, water, or other additives to the mixture.

• Do not use mixed material after the working time has expired.

• Do not disturb bonded components during the curing period.

• Do not expose uncured adhesive to heavy loads or water.

• Do not use below the recommended application temperature.

• Do not return mixed adhesive to the original container.

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7. Storage and Handling:

- **Storage:** Store in a cool, dry place between +5°C and +25°C. Keep away from direct sunlight and moisture.
- **Handling:** Wear protective gloves, clothing, and eye protection when handling the product. In case of skin or eye contact, rinse immediately with plenty of water.

Health and Safety:

- Refer to the product's Safety Data Sheet (SDS) for complete safety instructions.
- Ensure proper ventilation during application and curing. Avoid inhalation of vapours.
- Dispose of leftover material and packaging according to local environmental regulations.

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