MARMO SOLUTIONS
MARBLE & TILE SOLUTION PRODUCTS



TECHNICAL DATA SHEET

Product Name: MARMOBOND-GEL

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:

MARMOBOND-GEL is a premium two-component, solvent-free epoxy resin adhesive specially developed for bonding coloured natural stones, engineered stones, and artificial stone surfaces. Its advanced gel formulation provides exceptional workability and high creep resistance, ensuring durable, seamless, and structurally reliable bonds in both interior and exterior applications.

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2. Product Features:

- Two-Component System- Easy-to-mix 2:1 by weight ratio of resin and hardener.
- Solvent-free and low VOC formulation.
- Neutral colour suitable for most stone types.
- Non-sag gel consistency.
- High mechanical bond strength.
- Excellent resistance to moisture and chemicals.
- Excellent adhesion to natural and engineered stone.
- Low shrinkage after curing.
- Suitable for interior and exterior applications.
- Easily machinable and polishable after curing.
- Long-lasting and durable performance.

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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:** 2:1 (Resin: Hardener by weight)
- **Packaging:** Available in 1 KG Resin + 500 gm 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
- **Compressive Strength:** ≥ 70 N/mm² (after 7 days)
- **Tensile Strength:** ≥ 25 N/mm² (after 7 days)
- **Flexural Strength: >35** N/mm²
- **Shrinkage:** Negligible
- **Bond Strength (Concrete):** ≥ 15 N/mm²
- **Service Temperature Range:** -10°C to +35°C
- **VOC Content:** Solvent-free
- **Chemical Resistance:** Resistant to water, oils, acids, and alkalis
- **Shelf Life:** 24 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 2:1 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 2:1 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 +10°C and +30°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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