

## **TECHNICAL DATA SHEET**

**Product Name:MARMOPOXY-GEL**

**Manufacturer :**

ANAV INDUSTRIES

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Marketed By/ Exporter:

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### **1. Product Description:**

Marmopoxy-Gel is a two-component, thixotropic, clear epoxy-based joint and crack filler. Designed for precision filling of joints and cracks in stone, concrete, and other materials, it offers excellent adhesion and durability. Marmopoxy-Gel is mixed in a 2:1 ratio by weight and provides a smooth, clear finish. Over time, the product may exhibit slight yellowing, which is typical of clear epoxy materials.



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### **Product Features:**

- **Two-Component System:** Easy-to-mix 2:1 by weight ratio of resin and hardener.
- **Thixotropic:** Non-sagging formula ideal for vertical or overhead applications.
- **Clear Finish:** Provides a transparent finish for an invisible repair, though slight yellowing may occur over time.
- **Excellent Adhesion:** Bonds well to a variety of substrates including concrete, stone, and metal.
- **Durable & Long-Lasting:** High resistance to chemicals, abrasion, and environmental exposure.
- **Versatile Application:** Suitable for both indoor and outdoor use in joint and crack repairs.

### **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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### Technical Specifications:

- **Component Type:** Two-component epoxy system
- **Mixing Ratio:** 2:1 (Resin: Hardener by weight)
- **Color:** Clear (with slight tendency to yellow over time)
- **Consistency:** Thixotropic gel
- **Pot Life:** 45-60 minutes at 25°C
- **Initial Cure Time:** 24 hours at 25°C
- **Full Cure Time:** 7 days at 25°C
- **Application Thickness:** 0.5 mm to 3 mm
- **Compressive Strength:**  $\geq 60$  N/mm<sup>2</sup> (after 7 days)
- **Tensile Strength:**  $\geq 15$  N/mm<sup>2</sup> (after 7 days)
- **Elongation at Break:**  $\geq 3\%$
- **Bond Strength (Concrete):**  $\geq 3$  N/mm<sup>2</sup>
- **Service Temperature Range:** -10°C to +80°C
- **Shore D Hardness:** 75-80
- **Chemical Resistance:** Resistant to water, oils, acids, and alkalis
- **Shelf Life:** 12 months in original, unopened packaging
- **Packaging:** Available in 1.3 KG Resin + 0.65 KG set



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### **Application Guidelines:**

#### **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 Marmopoxy-Gel in the specified 2:1 ratio (2 parts resin, 1 part hardener) by weight.
- Stir the mixture thoroughly using a mechanical mixer for 2-3 minutes to achieve a homogeneous blend.
- Use the mixed material within the pot life of 45-60 minutes.

#### **3. Application:**

- Apply Marmopoxy-Gel using a spatula or trowel.
- Ensure the material is pressed into joints or cracks, filling them completely.
- For vertical applications, the thixotropic nature of the product prevents sagging.

#### **4. Curing:**

- Allow the applied product to cure for at least 24 hours before subjecting it to any loads or further treatments.
- Full mechanical strength will be achieved after 7 days.



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### **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 vapors.
  - Dispose of leftover material and packaging according to local environmental regulations.

