



TECHNICAL DATA SHEET

POLY GEL

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DESCRIPTION

POLY GEL is a premium, thixotropic two-component polyester-based adhesive, specially designed for bonding and filling marble, granite, natural stones, artificial marble, ceramics, and other construction surfaces. Its gel consistency ensures excellent application on vertical and horizontal surfaces without sagging.

PROPERTIES

- Fast curing (30–60 minutes at 20°C)
- Easy to mix and apply
- High bonding strength, even at elevated temperatures
- Excellent shine after mechanical polishing
- Thixotropic structure — ideal for vertical surfaces

APPLICATION AREAS

- Bonding natural stones like marble, granite, and travertine
- Filling and bonding on concrete, tile, ceramic, and wood
- Suitable for vertical and horizontal applications

INSTRUCTIONS FOR USE

- Ensure surfaces are clean, dry, and free from grease or dust.
- Mix 97–98% adhesive with 2–3% hardener thoroughly.
- Apply the mixed material immediately — pot life is 2–3 minutes at 20°C.
- The bonded area will fully cure in 15–35 minutes at 20°C. Curing time may vary depending on ambient temperature

PACKAGING

1 kg adhesive + 30 g hardener (standard set)

STORAGE AND SHELF LIFE

Store in a cool, dry place at 18–25°C

Avoid direct sunlight

Shelf life: 12 months in original, unopened packaging

RESTRICTIONS

- For wall applications above 2.5 m, always use mechanical support (e.g., metal fasteners).
- Do not reuse spatula or tools between mixed and unmixed material.
- Add color paste before adding the hardener, if needed.
- Excess hardener accelerates curing but may reduce bonding strength.
- Overuse of color paste can lead to adhesion failure.
- Keep the container sealed after use.
- Adhesive color may change with prolonged sunlight exposure.

SAFETY

- Avoid contact with eyes and skin.
- Keep out of reach of children.
- Follow the guidelines outlined in the product's Safety Data Sheet (SDS).

TECHNICAL PROPERTIES

Density	: 1.85 ± 0.02 gr/cm ³
Viscosity	: (25 °C 20 rpm) 200000-350000 cps
Color	: Transparent
Type	: Solvent based
The amount of hardener in the mixture	: %2-3
Mixing time	: ≈ 1 min.
Curing Time	: 2-3 min. (at 20°C with %2-3 hardener)
Maximum temperature during reaction	: 110-115 °C
Min. Use temperature	: -5°C
Max. Temperature resistance after curing	: 100°C
Maximum force	: 600 – 750 kgf.
Maximum elongation	: 2.4 – 2.8 Δ/mm
Maximum tension	: 0.3 kg /mm ²
Tensile strength	: 740 kgf
Force of elongation at break	: 2.5 Δ/mm
Elongation at break	: 5 %
Mixture time	: ≈ 1 min.

TECHNICAL SUPPORT

Manufactured By Industrial 9-Warehouse, Behind Shirawi Enterprise, Ras Al Khor Industrial Area 2, Dubai, UAE

India Facility: 1025/1/A, Babla Compound, Gaibi Nagar, Kalyan Road, Bhiwandi, Maharashtra – 421302

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