



TECHNICAL DATA SHEET

ECO-POX EPOXY GEL

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DESCRIPTION

ECO-POX EPOXY GEL is a high-performance, multipurpose epoxy-based, moisture-tolerant structural adhesive with a crystal-clear transparent gel appearance. Based on a 1:1 mixing ratio, it delivers outstanding bonding strength, superior load-bearing capacity, and excellent toughness and flexibility.

Ideal for both vertical and horizontal applications, it performs reliably in freeze/thaw conditions and resists vibrations and shock loads during transport. ECO-POX is easy to apply and suitable for filling, bonding, reinforcing, repairing, and sealing. It offers excellent chemical resistance and is 100% UV-resistant with non-yellowing properties.

PROPERTIES

• Appearance:	Gel
• Base:	Epoxy
• Available Colors:	Ice Transparent
• Application Area:	Indoor & Outdoor
• Mix Ratio:	1:1 (A:B)
• Gel Time (25°C):	45 minutes
• Full Cure Time (25°C):	24 hours

PRODUCT USAGE

- Clean, dry, and roughen the surface to ensure proper adhesion.
- Mix part A (resin) and part B (hardener) in a 1:1 ratio until a uniform transparent color is achieved.
- Use the prepared mixture within 45–55 minutes.
- Heat accelerates curing; cold delays it.

TECHNICAL PROPERTIES

Density	: $1.85 \pm 0.02 \text{ gr/cm}^3$
Viscosity	: (25 °C 20 rpm) 200000-350000 cps
Color	: Bej
Type	: Solvent based
The amount of hardener in the mixture	: %2-3
Mixing time	: $\approx 1 \text{ min.}$
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	: $\approx 1 \text{ min.}$

USAGE AREAS

- Granite, Marble, Quartz
- Ceramic, Composite Stone
- Natural Stone, Sintered Stone
- Metal and Glass

APPLICATION AREAS

- Bonding of marble, travertine, and other natural stones
- Bonding concrete, granite, tile, wood, and other substrates

INSTRUCTIONS FOR USE

- Surfaces must be clean, dry, and free of grease or dust.
- Mix adhesive and hardener thoroughly in a 1:1 ratio.
- Use the mixture within 2–3 minutes at 20°C.
- Full curing is achieved in 15–35 minutes at room temperature.
- Curing time may vary depending on ambient conditions.

PACKAGING

Product	Weight	Package
ECO-POX (A + B)	2Kg	6+6=12

STORAGE AND SHELF LIFE

Shelf life: 24 months when stored in original, sealed packaging.
Store in a cool, dry place at 18–25°C, away from sunlight and moisture.

RESTRICTIONS

- For vertical surfaces over 2.5 m height, use additional mechanical support.
- Do not reuse spatula from hardener container in the adhesive.
- Add color pigment (if needed) before mixing with the hardener.
- Excess hardener speeds up curing but reduces final strength.
- Excess color paste may compromise bonding.
- Always reseal containers after use.
- Product color may change if exposed to UV for prolonged periods.

SAFETY MEASURES

- Avoid contact with eyes and skin.
- Keep out of reach of children.
- Use in well-ventilated areas.
- Follow guidelines in the latest Safety Data Sheet (SDS).
- Store away from ignition sources and handle with proper PPE.

TECHNICAL SUPPORT

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

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