

EPOCLEAR

Clear Flowable, Low viscosity Solvent free Epoxy Resin

Description:

EPOCLEAR is a solvent free, two-pack epoxy resin designed specifically for decorative use. The clear, low-viscosity formulation is easy to work with and helps minimize typical film defects associated with bubbles and crawling. EPOCLEAR resin can be used in different application to give, stunning decorative resin floors with glossy, high-end finishes.

EPOCLEAR is applied as an epoxy top coat for coating and sealing concrete floors. EPOCLEAR is ideal as a topping because it makes the floor easier to clean and prevents concrete dusting.

Uses:

EPOCLEAR top clear coat over decorative system like

- 3D Printing (3D floor design)
- Colored Floors
- Terrazzo Floor either Epoxy or Cement
- Marble chips epoxy screed flooring

Advantages:

- Excellent durability and resilience.
- Clear and glossy finish compared to conventional epoxy coating
- Excellent self-levelling bubble free properties.
- High scratch resistance after full curing.
- Long lasting and easily maintained with good resistance to a wide range of domestic and commercial chemicals.
- Solvent free when used as a clear un-pigmented coating or binder.
- Outstanding water resistance.
- Resistant to most chemicals.

Ideally suited as top coat use in commercial, industrial and light institutional application such as:

- Hospitals, laboratories.
- Cafeterias, kitchen, store fronts, aisles
- Warehouse and manufacturing facilities

- Education and institutional facilities
- Can be used in conjunction with graded aggregates to produce durable decorative floor finishes.
- Clear top coat for resin floors, benchtops, artworks etc.

Instructions for Use:

Surface Preparation:

New concrete should be cured a minimum 28 days. Remove any laitence or weak surface layer.

A surface profile of 10-15 microns is appropriate for most application. This product requires preparation in order to perform as expected.

Examine the existing coating to ensure that it is well bonded to the concrete. Any loose coating must be completely removed. The surface must be free of all dirt, oils or other contaminants.

Mixing:

EPOCLEAR is supplied in two pre-weighted packs, ready to use in exact ratio. Mix the component B (Hardener) into component A (Base) thoroughly for 2-3 minutes using a slow speed drill without causing air bubbles.

If colored resin is required, add floor color tint as requested. Contact Matex representative to provide the coloring tint.

Application:

EPOCLEAR is applied with a brush, roller; for higher thickness, spread the material evenly using a squeegee. Bubbles should be removed with the use of a spiked roller.

Chemical Properties:

Resistant to a wide range of chemicals. Resistance to spillages (examples only).

- Toluene
- Sulphuric Acid 30%
- Acetic Acid 5%
- Vegetable Oils

EPOCLEAR

- Sodium Hydroxide 30%
- Ammonia 20%
- Hydrochloric Acid
- Petrol
- Sodium Chloride
- Kerosene
- Lactic Acid 5%

Surface staining may result from exposure to some aggressive chemicals. Good housekeeping practice requires spill to be quickly removed and washed.

Standards:

- ASTM D4541, ASTM C579, ASTM C580, ASTM D2240, ASTM D4060

TECHNICAL PROPERTIES	
Appearance	Clear liquid coating
Mixed Viscosity	250-350 cP
Density	1.0 ± 0.03 kg/lit
Pot life at 25°C	>60 minutes
Application Temperature	+5°C to +40°C
Set to touch at 25°C, 50% RH	8 hours
Minimum Recoat	12-16 hours
Maximum Recoat	48 hours
Foot Traffic	24 hours
Bond Strength (ASTM D4541)	>2.5 N / mm ²
Compressive Strength (ASTM C579)	>60 N/mm ²
Flexural Strength (ASTM C580)	45 N/mm ²
Shore D (ASTM D2240)	80
Water Absorption	0.2%
Abrasion Resistance (ASTM D4060)	82 mg / 1000 cycles

*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

Coverage:

1 lit of EPOCLEAR achieves a coverage of 1 square meter at 1 mm dry film thickness.

*Coverage rate is an approximate value, and subject to actual site conditions.

Packaging:

EPOCLEAR is supplied in two components, 4 and 15 Liter kits.

Storage:

Keep in sheltered and dry place with a temperature +5°C to +25°C. Shelf life is 12 months from date of production if stored properly.

Cleaning:

Tools used to mix and apply EPOCLEAR can be cleaned with ARMOSOLVENT. Hardened material can only be removed mechanically.

Recommendation:

- EPOCLEAR is not designed for exterior use.
- Do not use partial units. Prolonged exposure of product in containers to air may cause loss of clarity.
- Do not thin the materials with solvents.

Health and Safety:

Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

FIRST AID:

- Eyes: In the event of accidental splashes, flush with warm water and seek medical advice.
- Skin: Wash skin thoroughly with soap and water
- Inhalation: Remove to fresh air, keep patient rested
- Ingestion: Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to EPOCLEAR Material Safety Data Sheet.

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