

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.

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.

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

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 laitance 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 for 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-weighed packs, ready to use in exact ratio. Mix the component B (Hardner) into component A (Base) thoroughly for 2-3 minute using a slow speed drill without causing air bubbles.

If colored resin required add floor color tint as requested. Contact Matex representative to provide you with coloring tint.

Application:

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

EPOCLEAR

Packaging:

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

Chemical Properties:

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

- Toluene
- Acetic Acid 5%
- Sodium Hydroxide 30%
- Ammonia 20%
- Used sump oil
- Hydrochloric Acid
- Sulphuric Acid 30%
- Vegetable Oils
- Sodium Chloride
- Kerosene
- Petrol
- Lactic Acid 5%

Surface staining may result from exposure to some aggressive chemicals.

Good Housekeeping practice requires spill to be quickly removed and washed.

TECHNICAL PROPERTIES	
Appearance	: Clear liquid coating
Mixed Viscosity	: 90-100 cP
Density	: 1.05 Kg/Ltr.
Pot life at 25°C	: 60 minutes
Set to touch at 25°C,50RM	: 8 hours
Minimum Recoat	: 12-14 hours
Maximum Recoat	: 48 hours
Foot Traffic	: 24 hours
Compressive Strength (ASTM C579)	: 75 N / mm ²
Flexural Strength (ASTM C580)	: 45 N / mm ²
Shore D (ASTM D2240)	: 80
Water Absorption	: 0.2%
Bond Strength	: >2.5 N / mm ²
Abrasion Resistance (ASTM D4060)	: 82 mg / 1000 cycles

Storage:

Keep in sheltered and dry place with a temperature between +5°C and +35°C. Shelf life is 12 months form date of production if stored properly.

Consumption:

1 sq. meter / liter / 1 mm thickness

Cleaning:

Tools used to mix and apply EPOCLEAR can be cleaned with ARMOSOLVENT.

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:

- Use goggles and gloves during application. Do not breathe vapor of products. Use only in well ventilated areas
- Avoid contact with eyes or skin.
- Avoid direct contact with flames and fire.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

