

CIKOpoxy Clear Cast

Crystal Clear Epoxy Resin based Casting system

Description

CIKOpoxy Clear Cast is a high performance clear casting epoxy resin system designed for filling voids between dissimilar materials such as wood, concrete, etc. for a gap of 10 to 100 mm. CIKOpoxy Clear Cast can be tinted with metallic pigments and universal pigments.

CIKOpoxy Clear Cast is based on liquid epoxy resin cured with special grade of hardener. It offers a seamless, transparent and smooth topping system exhibiting excellent chemical, abrasion and impact resistance.

Properties

- Clear finish
- Extended curing time
- Low viscosity
- Self-levelling
- Impact Resistance
- High Gloss finish
- 100% solids
- Durable
- UV stable
- Low VOC

Application area

CIKOpoxy Clear Cast system is suitable for artistic segments as below:

- Decorative tables, furniture & appliances.
- Bench tops.
- Artistic handcrafts items & mould casting.
- Overlay paints and mosaics finish.

Physical properties

Form	2 components system Part-A & B: Liquid
Cured Colour	Crystal Clear
Mixing ratio	100:30 by weight
Working time @ 25 °C	4-6 hours
Curing time	24 to 36 hours

Chemical Resistance

CIKOpoxy Clear Cast is resistant to a wide range of chemicals. Specific data is available on request.

Coverage

CIKOpoxy Clear Cast provides coverage of 0.1m² per pack of 1 litre at 10 mm DFT.

Note: The coverage depends on the condition of the substrate. Consult CIKO technical service department for assistance.

Application instructions

Surface preparation

The substrate should be free from dust, moisture and loose particles. All contamination should be treated well before application of CIKOpoxy Clear Cast. If the substrate contains any types of contamination such as but not limited to oil, grease or sanding debris, wipe the surface using a cotton shirt rag soaked in solvent such as alcohol or acetone prior casting CIKOpoxy Clear cast.

Priming & sealing of substrate

For porous substrates such as wood, sealing is recommended. CIKOpoxy Prim11 or 14, a two component epoxy based primer shall be used for priming the substrate. The base [Part-A] and hardener [Part-B] components of CIKOpoxy Prim11 or 14 should be mixed thoroughly using a heavy duty, slow speed drill paddle assembly for three to four minutes and ensure a homogenous mix is obtained. Application of primer should be carried out as per the respective technical data sheet. Allow the primer to dry for 12-24 hours depending on the prevailing ambient conditions. The seal coat minimizes the effect of degassing by creating air-tight barrier between the porous wood and the CIKOpoxy Clear Cast so that the barrier prevent aesthetic and cosmetic defect.

Mixing

Pour the hardener component [Part-B] into the base component [Part-A] and mix well at low speed using drill paddle assembly for 2 to 3 minutes to achieve homogeneity. Do not over mix to prevent air entrapment. Allow the mixed material rest for 5 to 10 minutes prior to pouring. Do not mix more than a single kit at the same time to prevent heat generation. The appropriate

ambient temperature during mixing shall be between 20 °C and 30°C.

When metallic or universal pigments are to be added, it is recommended to add it gradually on the properly mixed material and continue mixing for an additional 2 to 3 minutes until homogeneous mix is achieved.

Application

Properly mixed materials should be poured over the clean dry and sealed surface or coated surface. The applied surface should be left for 24 to 36 hours curing, depending on the prevailing ambient conditions. Properties of the material are achieved upon full cure after 7 days. When CIKOpoxy Clear Cast is to be applied in moulds for handcrafts, pour the material from one side maintaining a pouring head not greater than 5 cm to prevent air entrainment, the applied material can be disturbed with the suitable tools to release the deeply entrapped air and then pass slightly a heat gun/torch over the surface of the material until no air bubbles are present.

For large casting do not exceed the thickness for more than 50 mm in a single pour. It is recommended to be casted in multiple layers with an application gap of 12 to 16 hours.

Precautions

Prior application of primer and CIKOpoxy Clear Cast, ensure that

- Moisture content of the substrate is less than 4%.
- Ambient temperature is between 10 – 30°C.
- Substrate temperature is between 10 – 30°C and at least 3°C above dew point temperature.
- Relative humidity is below 75%.

Packaging

CIKOpoxy Clear Cast is available in 1 litre & 2 litre kits of two parts A and B.

Shelf life

CIKOpoxy Clear Cast has a shelf life of 12 months if stored in accordance with CIKO instructions.

Storage

CIKOpoxy Clear Cast should be stored under enclosed area at temperatures between 5 – 30°C and away from direct sunlight.

Health & Safety

CIKOpoxy Clear Cast should not come in contact with eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Applicator should wear appropriate clothes, gloves and goggles. Use of barrier cream is recommended to provide additional skin protection. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

Technical Support

For further technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.

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A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries

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Note: The information presented herein based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control

