

Cicofloor® Hardener EP

Epoxy Floor Hardener and Sealer

DESCRIPTION

Cicofloor® Hardener EP is a two component, solvent containing epoxy coating system specially formulated to be chemical resistant. It can be used as a pore sealer, dust proofer, surface Hardener, or sealer for other epoxy flooring systems, especially screeds. Cicofloor® Hardener EP is clear so it doesn't affect the concrete appearance. But it can be colored as requested.

USES

- Warehouse concrete flooring especially for storing electronics or fine particles.
- Indoor and outdoor car parks.
- Chemical and food industries flooring.
- As a sealer for epoxy flooring systems.
- Can be used as a primer for epoxy flooring systems.

ADVANTAGES

- Resistant to a wide range of chemicals.
- Good abrasion and slip resistant surface.
- Applicable for vertical surface coating.
- If required, surface anti-slip roughness can be controlled by adding or broadcasting fine Cicogrip® on the surface.
- Doesn't need priming.
- Clear, other colors are available on request.
- Hygienic, anti-bacterial, and fungus growth.
- Waterproof.
- High bonding to concrete.
- Long Pot life, Suitable for hot climates.

PACKAGING

5 & 15 Kg set.

SHELF LIFE & STORAGE

12 months storage life if stored in its original unopened containers under a dry and shaded place in a temperature from 5°C to 35°C.

TECHNICAL PROPERTIES

Form	Liquid
Color	Clear, other colors are available on request
Solid content by weight	52±1%
Mixed density (ASTM D1475) @ 25°C	1.00±0.02 Kg/ltr
Pot life @ 25°C	150±10 min.
Touch dry time @ 25°C	6 hrs.±10 min.
Overcoat time @ 25°C	18-36 hrs.
Full cure time @ 25°C	7 days
Adhesion to concrete (ASTM D7234)	>2.3 N/mm²
Coverage	>7 m²/kg/coat @75 micron DFT

CHEMICAL RESISTANCE

The fully cured Cicofloor® Hardener EP meets the requirements of MPI#77 and is resistant to:

- Saltwater
- Gasoline and Kerosene
- Acetic acid 20%
- Ammonia 10%
- Chlorine
- Citric acid 20%
- Hydrochloric acid (HCl) 10%
- Nitric acid (HNO₃) 20%
- Lactic acid 20%
- Soda solution (saturated) (Na₂CO₃)
- Sulphuric acid (H₂SO₄) 10%
- Sodium hydroxide 40g/L
- Phosphoric acid (H₃PO₄) 20%

- Formic acid 10%
- Alum at 60°C
- Detergents

APPLICATION INSTRUCTIONS

Surface Preparation

Cicofloor®Hardener EP is applied on sound, clean, and dry concrete, or other cementitious substrates to achieve the maximum adhesion between Cicofloor®Hardener EP and the surface. Concrete floors should have a compressive strength of not less than 25 MPa. Laitance, oil, grease, or any fatty contamination should be removed using either Cicosurface®Degreaser, sandblasting, or steam cleaning.

Mixing

Stir the base separately, and then the entire contents of the smaller can (hardener) can be poured into the base container and then mixed for at least one minute by mechanical mixer using a slow or medium speed mixing drill.

Priming

Cicofloor®Hardener EP is self priming product, i.e. it doesn't need a separate primer.

Application

Hardener & Sealer Application

Transfer the mixed material into a suitable container for application. Apply the material using a short pile roller to the required film thickness. To have the best results, it's recommended to achieve two coats within 24 hours.

LIMITATIONS

Don't apply Cicofloor®Hardener EP if:

- The temperature of the surface is below 5°C or over 40°C.
- The flooring concrete is less than 28 days old or has less than 25 MPa in compressive strength.
- The flooring concrete moisture content is more than 4 %.

PRECAUTIONS

Health And Safety

Cicofloor®Hardener EP is non-hazardous. However, it should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles should be worn. Splashes on the skin should be removed with water. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

TECHNICAL SUPPORT

CIC provides on-site assistance, as well as consulting services on projects when requested. Technical data sheets on other CIC products and guidance on their use are available on request.



Warranty

CIC products are guaranteed against defective materials and manufacture and sold subject to CIC's standard terms and conditions of sale. Whilst CIC endeavors to ensure that any advice, information or recommendation given is correct, the company cannot accept any liability either directly or indirectly arising from the use of its products. User of the product must test the product's suitability for the intended application and purpose, since the company has no control over the application of its products. Information contained in this document is given on the best current knowledge. Our Products are in continuous development and CIC reserves the right to change the product without prior notice.