

Cicocoat®EP

Chemical Resistant Solvent Based Epoxy Coating & Sealer

DESCRIPTION

Cicocoat®EP is a two component, high solid solvent based epoxy coating system specially formulated to be chemical resistant. It can be used as a body coat, finish coat, or sealer for other epoxy systems. Cicocoat®EP is ideal for all wall coating when the highest protection and weather resistance is required. Cicocoat®EP is self priming if it is used as an independent epoxy system.

USES

- High quality protection system for concrete walls and ceilings
- Indoor car parks for vertical and horizontal applications.
- As a sealer for epoxy coating systems.
- Chemical and food industries plants.

ADVANTAGES

- Resistant to a wide range of chemicals.
- Anti carbonation.
- High mechanical characteristics
- Good abrasion & slip resistant surface.
- Self priming.
- Waterproof.
- High bonding strength to concrete and steel.
- Wide range of applications; primer, body coat, and sealer.
- Applicable for vertical, horizontal, and overhead substrates.
- Available in a wide range of colors.
- Easy application, just two components.
- Long pot life, Suitable for hot climates

PACKAGING

6 & 20 & 26 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	Grey (wide range of colors are available on request)
Solid content	57±1%
Mixed Density @ 25°C (ASTM D1475)	1.29±0.02 kg/ltr
Pot life @ 25°C	150±10 min.
Touch dry @ 25°C	6 hrs.±20 min.
Overcoating time @ 25°C	12-36 hr.
Full cure time @ 25°C (ASTM D1640)	7 days
Adhesion to concrete (ASTM D7234)	>2 MPa (concrete failure)
Adhesion to steel (ASTM D4541)	>8 MPa (1160 psi)
Impact resistance (ASTM D2794)	>115 inch/pound
Flexibility (ASTM D522)	No cracks @180°C by ¼ inch mandrel
Pencil hardness grade (ASTM D3363)	H
Abrasion resistance (ASTM D4060) @1000 cycles C10	<80 mg
Dry heat resistance (ASTM D2485): no effect	Up to 93°C
Coverage	>5.8 m²/kg/coat @ 75 micron DFT Minimum 2 coats are recommended

CHEMICAL RESISTANCE

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

- Hydrochloric acid (HCl) 50%
- Sulphuric acid (H₂SO₄) 50%

- Phosphoric acid (H₃PO₄) 20%
- Sodium hydroxide 50%
- Acetic acid 30%
- Ammonia 30%
- Saltwater
- Citric acid 30%
- Soda solution (saturated) (Na₂CO₃)
- Lactic acid 40%
- Kerosene
- Gasoline
- Chlorine
- Nitric acid (HNO₃) 40%
- Formic acid 40%
- Alum at 60°C
- Detergents

APPLICATION INSTRUCTIONS

Surface Preparation

Cicocoat®EP is applied on sound, clean, and dry substrates to achieve maximum adhesion between Cicocoat®EP and the substrate. 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. Any cracks, grooves, and holes should be filled first with Cicomortar®FX or Cicomortar®FC.

Steel surfaces:

All steel substrates should be free from dirt, oil, and grease and blast cleaned to Sa 2½ according to EN ISO 12944, part 4.

Mixing

Stir the base separately. The entire contents of the smaller can (hardener) can be poured into the base container and the materials should be mixed for at least one minute by mechanical mixer using a slow or medium speed mixing drill. Insufficient mixing may lead to color variation.

Priming

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

Application

Coating & 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. It's recommended to achieve two coats within 24 hours to have the best results. Apply the second coat at a right angle to the first coat.

LIMITATION

Don't apply Cicocoat®EP if:

- The temperature of the surface is below 5°C or over 45°C.
- The concrete is less than 28 days age.
- Concrete moisture content is more than 4 %.

CLEANING

Clean all tools and application equipment with Cicosolvent® immediately after use. Hardened material can only be removed mechanically.

PRECAUTIONS

Health And Safety

Cicocoat®EP should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles and gloves should be worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When contact with the skin is made, wash off immediately with soap and water. If swallowed, seek medical attention immediately, do not induce vomiting.

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.

