

Cicocoat®HB

Chemical Resistant, Non-Toxic, Solvent Free, Epoxy Coating

DESCRIPTION

Cicocoat®HB is a two component, solvent free, non-toxic, epoxy resin based coating. It is designed to be highly resistant to most known industrial chemicals. It has high abrasion resistance, and waterproofing action for concrete and metals. Cicocoat®HB is ideal for lining water reservoirs, tanks, and pipes and is non-toxic for potable water structures. Cicocoat®HB is available in two colors; white and blue to ease QC assuring achieving two coats in different colors.

USES

- As a protective coating for water tanks, pipes, reservoirs, marine structures, oilfields, refineries, tunnels, etc.
- Lining chemicals storage tanks of petroleum and petrochemicals products.
- Lining potable water and food process structures, like storage areas & piping.

ADVANTAGES

- Solvent free.
- Abrasion and chemical resistance.
- High bonding strength to concrete and steel.
- Polyamine curing.
- Doesn't need a primer.
- Anti fungus and Hygienic.
- Non-toxic.
- Prevents steel corrosion.
- Available in white, grey, and blue colors, other colors are available on request.

PACKAGING

7, 20 & 28 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 40°C.

TECHNICAL PROPERTIES

Form	Liquid
Color	White, grey and blue
Solid content	100%
Density @ 25°C (ASTM D1475)	1.65±0.02 kg/ltr
Pot life @ 25°C	80±3 min.
Touch dry @ 25°C	12 hrs.±30 min.
Overcoating @ 25°C	
Full cure time @ 25°C (ASTM D1640)	7 days
Adhesion to concrete (ASTM D7234)	>2.5 MPa
Tensile strength (ASTM D2370)	
Flexural strength	>3.5 N/mm ²
Abrasion resistance (ASTM D4060) @1000 cycles C10	52 mg
Shore D hardness (ASTM D2240)	85
Water absorption (ASTM C 413)	<0.032%
Coverage	>3.0 m ² /kg/200 micron DFT

CHEMICAL RESISTANCE

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

- Saltwater
- Benzene & Kerosene
- Acetic acid 20%
- Ammonia 20% & Alum at 60°C
- Chlorine
- Citric acid 20%
- Hydrochloric acid (HCl) 33%
- Nitric acid (HNO₃) 20%
- Lactic acid 20%
- Soda solution (saturated) (Na₂CO₃)

- Sulphuric acid (H₂SO₄) 50%
- Sodium hydroxide 40g/L
- Phosphoric acid (H₃PO₄) 20%
- Formic acid 10%

APPLICATION INSTRUCTIONS

Surface Preparation

Cicocoat®HB is applied on sound, clean, and dry substrates to achieve maximum adhesion between Cicocoat®HB and 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 each component separately for ten seconds. Then, pour the entire contents of the smaller can (hardener) into the base container and mix well for at least one minute with a mechanical mixer using a slow or medium speed mixing drill.

Application

Cicocoat®HB doesn't need primer. Once mixed, the material should be immediately applied using a brush, roller, or spray ensuring a continuous coating of uniform thickness. Two coats are recommended to obtain the required protection level, keeping 24 hrs. in between them. It is highly recommended to use different colors in each coat to control hiding all surfaces in both applications.

Fiber Reinforced Coating

To obtain high build thickness and ensure better crack bridging for the coating, it is recommended to use a glass fiber fabric (of density from 50-100 gm/m²) as an intermediate reinforcement layer. CIC can offer (65 gm/m² GF fabric). Apply the first coat and place the fiber fabric before the coat gets dried. After 24 hrs., apply the second coat over the dry reinforced first coat.

N.B. The consumption of this system will be more than the original system, especially in the second coat due to the rough surface of the fabric which captures more material to be filled.

CLEANING

Tools contaminated with Cicocoat®HB can be cleaned using Cicosolvent®. Hardened material can be removed by mechanical means.

PRECAUTIONS

Health And Safety

Cicocoat®HB 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.

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