

TECHNICAL DATA SHEET

CicoFloor®S-40

Solvent Based Epoxy Floor Coating

DESCRIPTION

CicoFloor®S-40 is a two component, solvent containing epoxy coating system specially formulated to be chemical resistant. It can be used as a body coat, finish coat, or sealer for other epoxy flooring systems, especially screeds. CicoFloor®S-40 is self-priming if it is used as an independent epoxy system.

USES

- Indoor Parking Structures
- As a sealer for epoxy screed systems.
- Warehouse & Logistics Hubs
- Workshops & Maintenance Bays
- For vertical and horizontal applications
- Pharmaceutical & Clean Zones

ADVANTAGES

- Excellent chemical and abrasion resistance
- Strong adhesion to concrete and steel
- Optional anti-slip texture via silica broadcast
- Waterproof and oil-resistant finish
- Easy to clean, seamless, and dustproof
- Long pot life with high coverage
- Glossy finish with custom color options
- Withstands high GCC ambient temperatures
- Self-priming on prepared substrates
- Complies with ASTM & EN standards

STANDARDS COMPLIANCE

EN 1504-10 – Principles for the application of protective coatings to concrete

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 (other colors are available on request)
Solid content by weight	65±2%
Mixed Density (ASTM D1475) @ 25°C	1.30±0.02 Kg/ltr
Pot life @ 25°C	150±10 min.
Touch dry @ 25°C	6 hrs.±20 min.
Overcoat time @ 25°C	12-36 hrs.
Full cure (ASTM D1640) @ 25°C	7 days
Adhesion to concrete (ASTM D7234)	>2.3 MPa
Adhesion to steel (ASTM D4541)	>8 MPa (1160 psi)
Impact resistance (ASTM D2794)	≥115 inch/pound
Flexibility (ASTM D522)	No cracks @180° by ¼ inch mandrel
Pencil hardness grade (ASTM D3363)	2H
Abrasion resistance (ASTM D4060)	<80 mg 1000 cycles (C10 wheels)
Dry heat resistance (ASTM D2485)	No effect up to 93°C ~6 m²/kg/coat @ 75 mic DFT (170 gr/m²)
*Coverage	Minimum of two coats are recommended.

*Depending on substrate roughness, application method, and material losses. Actual coverage may vary based on surface porosity, profile, wastage, and environmental conditions. It is recommended to carry out a controlled site trial to determine exact consumption.

CicoFloor®S-40



QUALITY GUARANTEE

CHEMICAL RESISTANCE

The fully cured CicoFloor®S-40 meets the requirements of MPI#77 and is resistant to:

- Hydrochloric acid (HCl) 10%
- Sulphuric acid (H₂SO₄) 10%
- Phosphoric acid (H₃PO₄) 20%
- Sodium hydroxide 20%
- Acetic acid 10%
- Ammonia 15%
- Saltwater
- Soda solution (saturated) (Na₂CO₃)
- Kerosene
- Gasoline
- Chlorine
- Nitric acid (HNO₃) 10%
- Formic acid 10%
- Detergents

APPLICATION INSTRUCTIONS

Surface Preparation

All concrete substrates must be structurally sound, clean, dry, and free from laitance, oil, grease, dust, curing compounds, or other contaminants. The surface should be prepared by mechanical means such as shot blasting, grinding, or scarifying to achieve a minimum surface profile of CSP 3-5 in accordance with ASTM D4259 or SSPC-SP13/NACE No. 6. The compressive strength of the concrete should be at least 25 N/mm², with a minimum pull-off strength of 1.5 N/mm² (ASTM D4541). Substrate moisture content must be less than 4% (ASTM D4263), and rising damp must be absent. Cracks should be repaired using suitable epoxy systems, and priming should be carried out where required using an approved epoxy primer or self-priming coat of CicoFloor® S-40. All steel substrates should be free from dirt, oil, grease, and blast cleaned to Sa 2½ according to EN ISO 12944, part 4.

Mixing

CicoFloor® S-40 is supplied as a two-component system comprising a resin (Part A) and a hardener (Part B). Prior to mixing, stir each component individually to ensure uniformity. Add Part B to Part A and mix thoroughly using a slow-speed mixer with a suitable paddle.

complete homogenization and avoiding air entrapment. Scrape the sides and bottom of the container to incorporate unmixed material. Do not mix partial units. Once mixed, the material should be applied within the specified pot life. Avoid excessive mixing time that may increase heat generation and reduce working time.

Application

Coating and Sealer Application

Transfer the mixed material into a suitable container for application. Apply CicoFloor® S-40 using a roller, brush, or airless spray onto the prepared substrate within the specified pot life. For use as a primer or sealer, apply a thin, uniform coat ensuring full surface wetting. For use as a topcoat, apply in one or two coats to achieve the desired dry film thickness, typically 100-300 µm per coat depending on the system design. Where a non-slip finish is required, broadcast silica aggregate onto the first wet coat and back-roll evenly before applying the final layer. Allow sufficient curing between coats, as per product guidelines. Avoid application under direct sunlight, high humidity, or on surfaces with active moisture.

LIMITATIONS

Don't apply CicoFloor®S-40 if:

- Temperature of the surface is below 5°C or over 40°C.
- Concrete compressive strength is less than 25 MPa.
- Concrete moisture content is more than 4 %.

CLEANING

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

PRECAUTIONS

Health And Safety

Cicofloor®S-40 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

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.

Technical data sheet
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