

# TECHNICAL DATA SHEET

## Cicofloor®SL

### Self-Levelling Epoxy Flooring System (2-6 mm Thick)

#### DESCRIPTION

Cicofloor®SL is a three component, solvent free epoxy, high flowable self-leveling system specially formulated to be abrasion and chemical resistant. It is designed to be applied in the range of 2-6 mm thick layer.

#### USES

- Showrooms and office floors finish
- Industrial hard-wearing flooring and workshops.
- Chemical industries flooring.
- Multi-story parking areas
- Food-processing industry.
- Chemical industry facilities
- Power stations
- Clean rooms
- Exhibition halls and showrooms
- Aircraft hangers
- Warehouses & maintenance areas

#### ADVANTAGES

- Good abrasion and slip resistant surface.
- Can be applied for a wide range of thicknesses. (see system coverage table)
- Hygienic, anti-bacterial, and fungus growth.
- Resistant of industrial chemicals, and fuels.
- Waterproof.
- Grey color, other colors are available on request.
- Long Pot life, Suitable for hot climates.

#### PACKAGING

16.5 Kg (A+B) set.

Cicofiller® 1 (13.00 kg)

Cicofiller® 2 (16.50 kg)

Cicofiller® 3 (21.0 kg)

Cicofiller® 4 (29.70) kg

#### 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                                          | Thick liquid                                |
| Solid content                                 | 100%                                        |
| Mixed density (ASTM D1475)<br>@ 25°C          | 1.80±0.02 Kg/ltr                            |
| Pot life @ 25°C                               | 60±5 min.                                   |
| Overcoat time @ 25°C                          | 7 hrs.                                      |
| Full dry (ASTM D1640) @ 25°C                  | 12 hrs.                                     |
| Adhesion to concrete<br>(ASTM D7234)          | ≥2.0 N/mm <sup>2</sup>                      |
| Compressive strength @ 14 days<br>(ASTM C579) | 76 N/mm <sup>2</sup>                        |
| Tensile strength 14 days<br>(ASTM D 2370)     | 27.5 N/mm <sup>2</sup>                      |
| Abrasion resistance<br>(ASTM D4060)           | 68 mg/1000 cycles<br>(C10 wheels)           |
| Primer Coverage                               |                                             |
| Cicoprime® 25<br>(Low porous concrete)        | 0.135 kg/m <sup>2</sup> @ 125<br>micron DFT |
| Cicoprime® S<br>(porous concrete)             | 0.140 kg/m <sup>2</sup> @ 75<br>micron DFT  |

#### Build up and consumption

| Product                | Application<br>thickness mm | Consumption               |
|------------------------|-----------------------------|---------------------------|
| Cicofloor® SL+Filler 1 | 1.5-2.5                     | 1.75 kg/mm/m <sup>2</sup> |
| Cicofloor® SL+Filler 2 | 2.0-3.0                     | 1.85 kg/mm/m <sup>2</sup> |
| Cicofloor® SL+Filler 3 | 2.5-4.0                     | 1.90 kg/mm/m <sup>2</sup> |
| Cicofloor® SL+Filler 4 | 4.0-6.0                     | 2.0 kg/mm/m <sup>2</sup>  |

## CHEMICAL RESISTANCE

The fully cured Cicofloor®SL is resistant to:

- Phosphoric acid ( $H_3PO_4$ ) 20%
- Acetic acid 30%
- Ammonia 30%
- Saltwater
- Citric acid 30%
- Soda solution (saturated) ( $Na_2CO_3$ )
- Lactic acid 40%
- Kerosene
- Gasoline
- Chlorine
- Nitric acid ( $HNO_3$ ) 40%
- Detergents

## APPLICATION INSTRUCTIONS

### Surface Preparation

Cicofloor®SL is applied on sound, clean, and dry substrates to achieve maximum adhesion between Cicofloor®SL 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.

### Priming

Apply one coat of Cicoprime®25, or Cicoprime®S, depending on the surface porosity. Use Cicoprime®10 for porous/semi-porous surfaces, while for low porosity surfaces, using Cicoprime®S is preferable. Ensure that the surface to be primed is clean, dry, and free from oil, grease, or other contamination. For Cicofloor®SL system, using a primer is a must.

### 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. Then add component C during mixing and continue for another one minute. Insufficient mixing may lead to color variation.

## Application

Pour the mixed material onto the dry primed surface and spread to the required thickness using a flat squeegee, rubber spreader, or notched steel trowel. After laying the material it should be rolled immediately with a spiked nylon roller.

## LIMITATIONS

Don't apply Cicofloor®SL if:

- The temperature of the surface is below 5°C or over 40°C.
- The flooring concrete compressive strength is less than 25 MPa.
- The flooring concrete moisture content is more than 4 %, otherwise, Cicofloor®WEP or Cicoprime®WEP can be used as a moisture barrier first.

## 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®SL 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 and 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.