

Cicofloor®EP6120

Heavy Duty Epoxy Flooring Screed

DESCRIPTION

Cicofloor®EP6120 is a three component, solvent-free, abrasion, and chemical resistant epoxy flooring screed from 6-16 mm thick. It is designed using a specially blended hard selected aggregate, for floor areas that are subjected to extreme wear, high impact, chemical attack, and abrasion. Cicofloor®EP6120 can be used as a filling material for confined spaces when high chemical and impact resistance are required (such as holes, anchor boxes, and manhole benching). In such cases, Cicofloor®EP6120 can be applied up to 150 mm in one go.

USES

- Areas where heavy loaded forklift trucks are in use like workshops and warehouses.
- Filling of anchor boxes, holes, or manhole benching.
- Areas where chemical spillage is extremely high like battery stores and laboratories.
- For heavy industry and chemical plants like oil refineries, paint workshops, steel works, etc.

ADVANTAGES

- Solvent free.
- High compressive strength.
- Extremely high wear resistance.
- Ultra high impact resistance.
- High chemical and abrasion resistance.
- Available in a wide range of colors.
- Non-slip surface finish.
- Easy to clean.

PACKAGING

40 kg pack.

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 Formable Mortar
Mixed Density @ 25°C	2.20±0.05 Kg/ltr
Pot Life @ 25°C	75±5 min.
Touch dry @ 25°C	6 hrs.±15 min.
Overcoat time @ 25°C	12-36 hrs.
Full cure @ 25°C	7 days
Water absorption (ASTM C413)	0.09%
Consumption	2.2 Kg/m ² @ 1 mm thick

MECHANICAL CHARACTERISTICS

Compressive Strength @ 14 days (ASTM C579)	102±1 N/mm ²
Flexural Strength @ 7 days (ASTM C580)	26±1 N/mm ²
Tensile Strength @ 7 days (ASTM C307)	19±1 N/mm ²
Adhesion to concrete (ASTM D7234) (Primed)	>2.5 N/mm ²
Shore D Hardness (ASTM D2240)	≥80

CHEMICAL RESISTANCE

The fully cured Cicofloor®EP3700 sealed by one coat of Cicofloor®S-40, Cicocoat EP, or Cicofloor®PU300 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) (Na_2CO_3)
- Lactic acid 40%
- Kerosene
- Gasoline
- Chlorine
- Nitric acid (HNO_3) 40%
- Formic acid 40%
- Alum at 60°C
- Detergents

APPLICATION INSTRUCTIONS

Surface Preparation

The substrate must be dry, sound, clean, and free from oil, grease, or any other contamination. Laitance, oil, and grease can be removed by either using Cicosurface®Degreaser, sandblasting, or steam cleaning. Any cracks, grooves, and holes should be filled first with Cicomortar®FX or Cicomortar®FC before priming. All steel substrates should be free from dirt, oil, 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. After mixing the resin, pour it into a larger container (more than 20 ltr volume) and add component C slowly while mixing with a powerful slow speed shear mixer until a homogenous mortar is achieved.

Priming

Using a short pile roller or soft hairbrush, all surfaces should be primed by Cicoprime®10, considering not to prime areas more than could be covered by mixed Cicofloor®EP6120. If for any circumstances the primed areas dried, they should be primed again prior to spreading the screed. Never apply screed on dry primer.

Application

Apply Cicofloor®EP6120 while the primer is still tacky within the pot life limits for both. Use floor rods to adjust the required thickness and spread the mortar using steel or plastic trowels. Compact the screed mortar strongly using a wooden float to ensure a high degree of bond to the primed concrete floor. Finish the surface of the screed using proper steel trowels. It is highly recommended to apply a final coat of Cicofloor®S-40 or Cicocoat®EP to cover all possible obvious application cold joint lines that could show up in between the different execution stages. Cicofloor®FS-50 can be used as well for the same purpose, while Cicofloor®PU300 is recommended to be used as a sealer for external exposure. Meanwhile, applying that coat would add high chemical resistance and won't affect the non-texture of the screed surface.

LIMITATION

Don't apply Cicofloor®EP3700 if:

- The temperature of the surface is below 50C or over 40°C.
- The flooring concrete compressive strength is less than 20 MPa.
- The flooring concrete moisture content is more than 4%.

For more details, please review our Technical Guide for Flooring System

Ask for CIC flooring standard color chart

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®EP6120 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.