

CIKOpoxy Floor SD



High Performance epoxy resin-based floor screed

Description

CIKOpoxy Floor SD, three components floor screed topping for concrete, screeds and other suitable substrates.

CIKOpoxy Floor SD is based on liquid epoxy cured with special grade of hardener and reinforced with graded fillers. It offers a seamless tough floor screed that can be applied in thicknesses from 2 mm to 5 mm in a single application.

Advantages & Properties

- Three component epoxy-based screed system.
- Exhibits good wear and abrasion resistance.
- Seamless: easy to clean & maintain hygienic floor.
- Resistance to wide range of chemicals.
- Can withstand dynamic and static heavy loads.
- Slip resistant in both dry and wet conditions.
- High Impact resistance
- Service temperature 5°C to 70°C.
- Low VOC

Application Area & Uses

CIKOpoxy Floor SD as floor screed is suitable to use both in industrial and commercial segments such as:

- Hospitals and laboratories.
- Warehouse floors and food storage areas.
- Dairies and chemical plants.
- Engineering work shops and offices.
- Walkways and loading bays
- Production and storage areas.
- Showrooms and shops
- Operational rooms in factories and substations.

Physical properties

Form	3 component system Part A & B: Liquid Part C: Powder
Colour	Standard colours
Mixing ratio	Pre-weighed packs
Pot life	30-40 minutes
Tack free	Approx. 6 hours
Final cure	7 days
Foot traffic	After 24 hours
Compressive Strength BS 6319-2 @ 7 days	> 65 N/mm ²

Flexural Strength BS 6319-3 @ 7 days	> 15 Mpa
Tensile Strength @ 7 days	≥10 N/mm ²
Pull off Bond Strength to primed concrete ASTM D7234 @ 7 days	≥ 2 N/mm ² (Concrete Failure)
Water Penetration BS EN 12390	Nil
Shore "A" Hardness ASTM D 2240-05 @ 7 days	90-95

Coverage

25 Kg kit of CIKOpoxy floor SD will provide a theoretical coverage of 6.5 to 7 m² at 2 mm DFT.

NB: Coverage depends on the floor condition and finish. The required total dry film thickness of the build-up system is evaluated depending on service life and conditions. Consult CIKO technical service department for assistance and further support.

Chemical resistance

CIKOpoxy Floor SD resists occasional chemical spills. Detailed data available upon request.

Application instructions

Surface preparation

Concrete surface must be at least 28 days old, with 25 MPa compressive strength and 1.5 MPa pull-off bond strength. Clean all contamination (oil, grease, spills) with a suitable agent. Grind the concrete with rough diamond disks, grit blast, shot blast, or use equivalent mechanical methods before applying the primer.

Application

Priming

CIKOpoxy Prim14 or CIKOpoxy Prim11, a two-component epoxy-based primer shall be used for priming the substrate.

Application of primer should be carried out as per the respective technical data sheet. Allow the primer to dry for 12 -24 hours depending on the prevailing ambient conditions.

Application of epoxy screed

The base component [Part-A] of CIKOpoxy Floor SD should be mixed thoroughly using a heavy-duty slow speed drill-paddle assembly for two minutes and ensure that a homogenous mix with uniform colour is obtained.

Transfer the mixed base component [Part-A] completely to a suitable container.

Pour the hardener component [Part-B] into the mixed base component [Part-A] and mix well to homogeneity. Add the powder component Part-C to the properly mixed Part-A & Part-B and mix well to obtain a homogenous mass.

Properly mixed materials should be spread over the dry and clean primed surface using a notched trowel maintaining the required thickness. Immediately spike the applied surface using spike rollers to release entrapped air in the material to obtain a uniform, smooth and even finish. It is applicable to apply CIKOpoxy Floor SD in a skim coat application of approximately 2 mm to reduce the floor irregularities and imperfections at least 12 to 24 hours prior to the actual screed application. The coated surface should be left for 12 – 24 hours curing, depending on the prevailing ambient conditions prior to the application of the body screed or top coat. CIKOpoxy Putty or CIKOpoxy FC can be used to repair, fill or resurface any noticeable defects over the primed surface, applied skim coat or screed.

Cleaning

Used tools must be well cleaned with CIKOsol or CIKOsolvent 20 directly after usage.

Precautions

Prior application of primer and CIKOpoxy Floor SD, ensure that:

- Moisture content of the substrate is less than 4.5 % for the primer application
- Ambient temperature is between 10 – 45°C.
- Substrate temperature is between 10 – 35°C and at least 3°C above dew point temperature.
- Relative humidity is below 75%.
- When CIKOpoxy Floor SD is applied at direct UV radiations exposed areas, it is recommended to apply a thin layer of CIKOcoat UV333 at 100 microns DFT.
- When CIKOpoxy Floor SD is applied at floor levels without direct exposure to UV radiations, it is recommended to apply a single or two layers of CIKOpoly FL111 at thickness ranging between 0.5 mm up to 1 mm.

Legal Notice and Warranty

CIKO warrants this product to be free from manufacturing defects and to meet the technical properties stated in the current Technical Data Sheet, if used as directed within its shelf life. Satisfactory results depend not only on quality of product but also on many factors beyond our control. CIKO makes no other warranty or guarantee, express or implied, including warranties of merchantability or fitness for a particular purpose with respect to its product. The sole and exclusive remedy of purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of CIKO. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by purchaser. CIKO will not be responsible for any special incidental, consequential including lost profits or punitive damages of any kind. Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on CIKO's present knowledge and experience. However, CIKO assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third-party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. CIKO reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified expert.

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All CIKO products are manufactured under a strict management system conforming to and in compliance with requirements of international standards of Quality, Environmental, occupational Health and Safety ISO 9001, ISO14001 and ISO45001.

Packaging

CIKOpoxy Floor SD is available in 25 kg kit consisting of Part-A, B & C.

Shelf life

CIKOpoxy Floor SD has a shelf life of 12 months if stored in accordance with CIKO instructions.

Storage

CIKOpoxy Floor SD should be stored under enclosed shaded area at temperatures between 5 – 35°C.

Health & safety

CIKOpoxy Floor SD should not come in contact with the eyes. It should not also be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Applicator should wear appropriate clothes, gloves and goggles. Use of barrier cream is recommended to provide additional skin protection. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

Technical Support

For further technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off-site services to end users, specifier and contractors.

More from CIKO Middle East

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproof and Damp-proof coatings
- Surface Treatments
- Walls, Flooring and Toppings
- Grouts and anchors
- Tile Adhesives and Grouts
- Concrete Repair Materials
- Adhesives and Bonding Agents
- Protective Coatings & Sealers
- Joint Sealants and Moulding compounds
- Sports Flooring
- Plastering Mortars
- Paints