

CIKOpoxy Prim 14-SF



Solvent Free, Medium Viscosity Epoxy Based Primer

Description

CIKOpoxy Prim 14-SF is a solvent free two components medium viscosity epoxy resin-based primer and scratch coat recommended for concrete, screeds, and solid cement based-substrate. It provides excellent adhesion and sealing to substrates such as concrete, wood, screed, natural stones and other porous and non-porous substrates.

CIKOpoxy Prim 14-SF is a medium viscosity preconditioning primer and scratch coat which stabilizes the concrete substrate and isolates subsequent coating from the alkalinity of the concrete which assists the degradation of topcoats.

Properties & Advantages

- Two component epoxy-based system easy to mix and apply.
- Provides excellent adhesion to many types of low to medium absorbent substrates.
- Multipurpose, may be used as a primer, scratch coat, repair mortar/screed when mixed with CIKO ASG at a given ratio.
- Provides a good base coat for better adhesion of subsequent CIKOpoxy topcoats.
- Exhibits very good sealing properties.

Application Area & Uses

- As a primer and sealing coat for the range of CIKO floor coatings and topping systems.
- Can be mixed with suitable grade and proportion of CIKO ASG to skim, scratch and repair floor or patches.
- CIKO ASG can be broadcasted over wet coat to create a mechanical key for anti-slip floor coating.

Physical properties @ 25 °C

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|---|---|
| Form | Two components system Part A & B: Liquid |
| Colour | Light yellow to pale brownish |
| Mixed Density | 1.5 ± 0.05 kg/L |
| Mixing ratio (A:B) | 100:21 (by weight) |
| Solid content (weight) | 99-100 % |
| Finish | Glossy |
| Pot life | 45-60 minutes @ 25°C 30-40 minutes @ 35°C |
| Over coating time | 12 to 24 hours |
| Pull off Bond Strength to Concrete ASTM D7234 @ 7 days | ≥ 1.5 N/mm ² (Concrete Failure) |
| VOC(USEPA-24) | <20g/l |

Coverage

26 kg kit of CIKOpoxy Prim 14-SF will provide a theoretical coverage of 65-68 m² at 250 microns dry film thickness.

Note: The coverage depends on substrate type, absorption, finish and condition. It is recommended to apply CIKOpoxy Prim 14-SF at minimum thickness of 250 microns DFT. Consult CIKO technical service department for assistance and further support.

Application instructions

Surface preparation

The concrete surface should be fully cured aged at least 28 days, free from dust and loose particles. All contamination such as oil, grease and extraneous spillages has to be cleaned using the suitable cleaning agent. Concrete shall be grinded using rough diamond disk, grit blasted or treated with equivalent and suitable mechanical means to achieve a sound, rough and open textured surface. Acceptable concrete/screed surface must have achieved a minimum compressive strength of 25 N/mm², surface pull off bond strength of 1.5 N/mm² and surface moisture content not exceeding 4 %.

All contamination and dust should be treated and vacuumed well prior the application of CIKOpoxxy Prim 14-SF.

Mixing

The base component [Part-A] of CIKOpoxxy Prim 14-SF should be mixed thoroughly using a heavy-duty adjustable speed drill fitted with mixing paddle to ensure homogenous mix. Whilst the mixer is in running mode, dispense the hardener component [Part-B] should be poured into the base component and mixed well until a homogenous mix is obtained.

Application

Primer and sealer coat

Properly mixed material should be applied using brush or high-quality medium nap epoxy roller over the dry and clean surface at the rate ranging between of 0.35 kg/m² up to 0.4 kg/m².

For anti-slip floor finish or in purpose of increasing the mechanical bond strength of further layers, CIKO ASG may be uniformly broadcasted or fully ponded over the wet coat at a consumption rate ranging between 0.7 kg/m² up to 1.5 kg/m². The coated surface should be protected for at least 12 up to 24 hours curing, depending on the prevailing ambient conditions and prior application of further coats.

Skim/scratch coat

Add CIKO ASG (0.1-0.3 mm) at a mixing ratio of 1:1 by weight to the properly mixed CIKOpoxxy Prim 14-SF and further mix for at least 2 to 3 minutes to attain a spreadable consistency of mixed density of approximately 1.7 kg/L that is suitable to be applied using trowel or scrapper. Spread the overall mixed materials over the concrete/screed surface at a rate ranging between 0.5 kg/m² up to 1.7 kg/m² depending on the required thickness. Maximum applicable thickness is 1 mm DFT. The applied surface should be protected for at least 12 up to 24 hours curing, depending on the prevailing ambient conditions and prior application of further coats.

Patching and repair mortar/screed

Add CIKO ASG (0.1-0.3 mm) at a mixing ratio of 1:2 or 1:3 by weight to the properly mixed CIKOpoxxy Prim 14-SF and further mix for at least 2 to 3 minutes to attain a thick and trowel-able consistency. Spread the overall mixed materials over the concrete/screed surface at a rate ranging between 0.7 up to 2 kg/m² depending on the required thickness. The maximum applicable thickness is 2 mm DFT. The applied surface should be protected for at least 12 up to 24 hours curing, depending on the prevailing ambient conditions and prior application of further coats.

Precautions

Prior application of primer, ensure that

- Moisture content of the substrate is less than 4%.
- 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%.
- Rain, water or vapor condensate is not expected within 24 hours of application.

Packaging

CIKOpoxxy Prim 14-SF is available in 26 kg kits consisting of Part-A & B.

Storage

CIKOpoxxy Prim 14-SF should be stored under enclosed shaded areas away from direct sunlight, rain or moisture at temperatures ranging between 5 °C and 35°C.

Shelf life

CIKOpoxxy Prim 14-SF has a shelf life of 12 months if stored in strict accordance to CIKO's storage instructions.

Health & safety

CIKOpoxxy Prim 14-SF should not come in contact with eyes or 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 any 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
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries

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 experts.

TDS/FT21 Rev.:1 Issue: C

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.



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