

CIKOscreeed PU 3000

Polyurethane based floor screed

Description

CIKOscreeed PU 3000 is polyurethane based three component floor screed system for concrete and other suitable substrates.

CIKOscreeed PU 3000 is based on resin cured with special grade of hardener and reinforced with graded fillers. It offers a seamless tough floor screed that can be applied to a range of thickness from 1 to 3 mm.

Properties

- Three component polyurethane based screed
- Durable with long life expectancy.
- Exhibits good impact and abrasion resistance.
- Wet/dry slip resistance
- Non tainting
- Resistant to wide temperature fluctuations
- Easy to clean
- Anti-bacterial growth
- Non dusting
- Resistance to wide range of chemicals.

Application area

CIKOscreeed PU 3000 as floor screed is suitable to use both in industrial and commercial segments such as,

- Warehouse floors and food storage areas.
- Cold warehouses
- Food freezers
- Dairies and chemical plants.
- Engineering work shops.
- Walkways, loading bays parking lots.
- Production and storage areas.

Physical properties

Form	3 component system Part-A & B : Liquid Part-C : Powder
Colour	Standard colours
Mixing ratio	Pre-weighed packs
Density	≈2000±50 kg/m ³
Pot life @ 25 °C	30 minutes
Final cure	7 days
Compressive strength (BS 6319)	>50 MPa
Tensile strength (ASTM D412)	>7 MPa
Flexural strength (BS6319)	>15 MPa
Water Absorption	NIL
Adhesive strength to concrete	Concrete failure
VOC	<10g/l
Service Temperature	-25°C to 80°C

Chemical resistance

CIKOscreeed PU 3000 is resistant to a wide range of chemicals. Specific data is available on request. Resistance to occasional spillage includes,

- Diluted acids
 - Sulphuric acid
 - Hydrochloric acid
 - Acetic acid
 - Lactic acid
- Diluted alkalis
 - Sodium hydroxide
 - Ammonia solution
- Gasoline
- Brake fluids
- Mineral oils
- Most organic solvents
- Fats
- sugars
- Petrol
- Kerosene
- Hydraulic oil
- Vegetable oils
- Used sump oil

Coverage

CIKOscreeed PU 3000 will provide coverage of 2 to 3 kg/m² at 1mm thickness.

Note: The coverage depends on the floor condition and finish. Consult CIKO technical service department for assistance.

Application instructions

Surface preparation

The concrete surface should be free from dust and loose particles. All contamination should be treated well before application of primer.

Application

Priming

CIKOprimer PU, a single component polyurethane based primer shall be used for priming the substrate.

Application of primer should be carried out as per the respective technical data sheet.

Application of PU screed

The base component [Part-A] of CIKOscreeed PU 3000 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 that can hold the volume.

Pour the hardener component [Part-B] into the mixed base component [Part-A] and mix well to homogeneity. Add the 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 tacky and clean primed surface using a trowel maintaining the required thickness. CIKOsol shall be used for cleaning the equipment. The screed should be left for 12 – 24 hours curing, depending on the prevailing ambient conditions.

Packaging

CIKOscreeed PU 3000 is available in 23 kg kits consisting of Part-A, B & C.

Shelf life

CIKOscreeed PU 3000 has a shelf life of 12 months if stored in accordance with CIKO instructions.

Storage

CIKOscreeed PU 3000 should be stored under enclosed dry and cold shaded area at temperatures between 5 – 25°C.

Precautions

Prior application of primer and CIKOscreeed PU 3000, ensure that

- Stir Part A before mixing with the other parts.
- The moisture content of the substrate is less than 4%.
- The ambient temperature is between 10 – 40°C.
- The substrate temperature is between 10 – 35°C.
- The relative humidity is below 75%.
- Screed should be applied when the primer is still tacky.

Health & safety

CIKOscreeed PU 3000 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 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
- 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