

# CIKOpoly FL111



## Polyurethane resin based floor coating

### Description

CIKOpoly FL111 is two-component hard wearing polyurethane based protective coating recommended as a floor topcoat for interior applications over polyurethane or epoxy resin based screeds and floor topping systems.

### Properties

- Two component polyurethane based system.
- Good abrasion and chemical resistance.
- Provides excellent adhesion to epoxy and polyurethane substrates.
- Durable and economical.

### Application area

CIKOpoly FL111 is suitable to use both in industrial and commercial segments such as,

- Top coat over epoxy or polyurethane screed for interior application.
- Base coat for exterior application.
- Warehouse floors and food storage areas.
- Heavy duty traffic parking areas.
- Residential garage and basement areas.
- Walkways and loading bays.

### Physical properties @ 25°C

Form	Two components liquid Part-A : Liquid Part-B : Liquid
Colour / Finish	Available in wide range/ Glossy
Solids %	97-100%
Pot life	40-60 minutes
Initial cure	24 Hours
Final cure	7 days
Pull-off bond strength ASTM D7234 @ 7 days	≥ 2 Mpa

### Chemical Resistance

CIKOpoly FL111 is resistant to a wide range of chemicals when tested as per ASTM D543, Patching Method. Specific data is in below table:

Test Solution	Test Condition	Observation & Test Result
Sulphuric acid	23± 2°C 48 hours	No Characteristics Observed (Resistant)
Hydrochloric Acid		
Acetic Acid		
Lactic Acid		
Sodium Hydroxide		
Ammonium Hydroxide		
Sodium Chloride		
Petrol		
Kerosene		
Hydraulic oil		
Vegetable oil		

### Coverage

CIKOpoly FL111 will provide a theoretical coverage of 2 m<sup>2</sup> per litre at 500 microns dry film thickness.

Note: The coverage depends on the floor condition and finish. It is recommended to apply CIKOpoly FL111 at minimum 500 microns up to 1 mm DFT. Consult CIKO technical service department for assistance and further support.

### Application instructions

#### Surface preparation

The epoxy or polyurethane substrate should be free from dust and loose particles. All contamination should be treated well before application of CIKOpoly FL111. In case of presence of traces of oil or grease on the substrate, it shall be removed by suitable means.

The epoxy or polyurethane surface must be roughened using sand paper if aged more than 3 days and should be properly vacuumed before application of CIKOpoly FL111 so that the surface is fully free from dust and loose particles.

## Mixing

The base component [Part-A] of CIKOpoly FL111 should be mixed thoroughly using a heavy duty slow speed drill-paddle assembly for minimum 2 minutes and ensure that a homogenous mix with uniform colour is obtained.

Pour the hardener component [Part-B] into the mixed base component [Part-A] and further mix for 2 to 3 minutes to achieve a homogeneous mixture.

## Application method

Properly mixed material should be applied using steel or rubber trowel over the clean and dry base coat, at a rate of 0.5L/m<sup>2</sup> up to 1L/m<sup>2</sup>. Immediately spike the applied surface using spiked rollers to release entrapped air in the material and to obtain a uniform, smooth and even finish. The coated surface should be left for 12 – 24 hours curing, depending on the prevailing ambient conditions.

## Precautions

Prior application of CIKOpoly FL111, ensure that

- The epoxy or polyurethane substrate is free of water vapour condensate and totally dry.
- The ambient temperature is between 10 – 45°C.
- The substrate temperature is between 10 – 35°C and at least 3°C above dew point temperature.
- The relative humidity is below 75%.
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## Packaging

CIKOpoly FL111 is available in 7.5 litre kit consisting of Part-A & B.

## Shelf life

CIKOpoly FL111 has a shelf life of 12 months if, stored in accordance with CIKO instructions.

## Storage

CIKOpoly FL111 should be stored under enclosed shaded area at temperatures between 5°C and 35°C.

## Health & safety

CIKOpoly FL111 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

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Note: The information presented herein based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control

