

# CIKOcoat UV333

Smart Chemical Solutions



## Polyurethane based top coat for exterior applications

### Description

CIKOcoat UV333 is an aliphatic acrylic, two component polyurethane based floor top coat recommended for exterior applications. It provides excellent resistance to ultraviolet rays.

It possesses high tensile strength and excellent balance between elongation and hardness, resulting in long term impact and wear resistance.

### Properties

- Two component polyurethane based system.
- Resistance to UV rays.
- Provides tough topcoat on wide range of substrates.
- Exhibits good impact and abrasion resistance.
- Exhibits balanced tensile strength, elongation and hardness.

### Application area

CIKOcoat UV333 suitable to use both in industrial and commercial segments as,

- Topcoat & line marking for CIKO coatings systems.
- Durable coating for interior and exterior applications.
- As a topcoat for UV resistance on epoxy based systems.
- Coating for transformer pits, cable trenches, exposed ramp and floor areas.

### Physical properties

Form	Two component system Part-A : Liquid Part-B : Liquid
Solids %	Min. 75%
Mixing ratio	Pre-weighed packs
Finish	Glossy
Pot life @ 25 °C	120 minutes
Surface dry	3-4 hours

Tack free	Within 60 minutes		
Hard Dry	16 hours		
Full Cure	7days		
Tensile strength ASTM D412	>10MPa		
Elongation ASTM D412	>50%		
Adhesion in peel ASTM C794-06	Substrate	Peel strength (N)	Adhesion loss (%)
	Concrete	>70	0
	Aluminum	>16	0
	Glass	>8	0
Abrasion resistance BS EN 1341	<20mm		
Slip resistance BS EN 14231	Mean USRV 118		
Heat Resistance of coating	No de-bonding, blistering, sagging or slipping		

### Chemical & Environmental Resistance

CIKOcoat UV333 is resistant to a wide range of chemicals when tested in Accordance to ASTM D543. Specific data is available on request. Resistance to occasional spillages include:

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

## Coverage

CIKOcoat UV333 will provide coverage of 6.0 - 7.0m<sup>2</sup> per litre at 100 microns dry film thickness per coat.

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

## Application instructions

### Surface preparation

The concrete or metal surface should be free from dust and loose particles. Any oil spillage areas shall be cleaned by acid etching and cleaned with plenty of clean water. All contamination should be treated well before application of CIKOcoat UV333 and surface should be dry to moisture content below 4%.

### As a top coat over epoxy or polyurethane coat:

The base (epoxy or polyurethane) surface must be roughened using sand paper and should be properly vacuumed before application of CIKOcoat UV333 so that the surface is fully free from dust and loose particles.

Note: The roughening of substrate is recommended only if the base screed is aged more than 7 days. Otherwise CIKOcoat UV333 can be applied directly on the base screed after ensuring proper surface preparation.

### Mixing

The base component [Part-A] of CIKOcoat UV333 should be mixed thoroughly using a heavy duty slow speed drill-paddle assembly and ensure a homogeneous mix. The hardener component [Part-B] should be poured into the base component [Part-A] and mixed well until a homogenous mix is obtained.

### Application method

Properly mixed material should be applied using brush or roller over the dry and clean base (epoxy or polyurethane) surface, maintaining the required thickness. The coated surface should be left for 12 – 24 hours curing, depending on the prevailing ambient conditions. Apply subsequent coats once the basecoat gets properly dried. A minimum of two coats is recommended.

## Precautions

Prior application of, ensure that

- Substrate is free of moisture.

- Ambient temperature is between 10 – 45<sup>0</sup>C.
- Substrate temperature is between 10 – 35<sup>0</sup>C.
- Relative humidity is below 75%..

## Packaging

CIKOcoat UV333 is available in 4.0 litre and 15 litre kits that consists of Part-A & B.

## Shelf Life

CIKOcoat UV333 has a shelf life of 12 months if stored in accordance with CIKO instructions.

## Storage

CIKOcoat UV333 should be stored under enclosed shaded area at temperatures between 5 – 35<sup>0</sup>C.

## Health & safety

CIKOcoat UV333 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

TDS/RP20 Rev.:3 Issue:C

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

