

# CIKOcoat RC70

Smart Chemical Solutions



## Polyurethane resin based chemical resistant coating

### Description

CIKOcoat RC70 is an aromatic two component polyurethane protective coating. It has exceptional chemical resistance and on drying it forms a very tough, abrasion resistant and yet sufficiently resilient coating. It is used as topcoat or intermediate coat for highly corrosive environment such as in chemical industries.

### Properties

- Two component cold applied system on concrete and steel.
- Highly chemical resistant.
- Provides good abrasion resistance and sufficiently resilient.
- Can be used as top or intermediate coat.
- Extends durability of concrete and metal.
- Easy to clean and maintain.

### Application area

CIKOcoat RC70 as a protective coating is suitable to use in many segments such as,

- Chemical industries.
- Oil processing units.
- Below equipment floors subjected frequent spillage of oil and chemicals.
- Power plants, substations and gas refineries.
- Metal pipe coating.

### Physical properties

Form	Two component system
Colour	Standard colours
Solids	Min. 70%
Mixing ratio	Pre-weighed packs
Pot life @ 25 °C	60 minutes
Applications	Brush/roller/airless/air spray
Surface dry	3-4 hours
Tack free	Approx. 8 hours
Initial cure	24 hours
Final cure	7 days @ 25° C

### Chemical resistance

CIKOcoat RC70 is resistant (30days test) to a wide range of chemicals as mentioned below. Specific data is available on request.

Hydrochloric Acid (Conc)	Whitish tint
Acetic Acid 10%	No change
Acetic Acid 30%	No change
Phosphoric Acid 70%	Colour change
Nitric Acid 30%	No change
Sulphuric Acid 10%	No change
Ethanol	No change
Toluene	No change
Petrol	No change
Hydraulic Oil	No Change
Transformer oil	No Change
NaOH 20%	No change
NaCO <sub>3</sub> 40%	No change
NaCO <sub>3</sub> 25%	No change
Xylene	No Change
KOH	No Change

### Coverage

CIKOcoat RC70 will provide coverage of 7.0m<sup>2</sup> per litre at 100 microns dry film thickness.

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 primer or CIKOcoat RC70 and surface should be dry to moisture content below 4% prior application of primer.

#### New concrete

The new concrete substrate should complete the process of curing and should have a dry surface. The

surface should be prepared using mechanical scrubbers to remove loose and un-bonded particles. The whole surface must be cleaned using compressed air/vacuum to make it free from dust and loose particles just before the application of coating.

#### Old concrete

All contamination such as oil / chemical spillage or pot holes should be treated. The surface should be prepared using mechanical scrubbers to remove loose and un-bonded particles. All potholes and cracks must be repaired well in advance. The whole surface must be cleaned using compressed air/vacuum to make it free from dust and loose particles just before the application of coating.

#### Metal surface

The metal surface must be sand blasted to remove rust and other contamination. Immediately apply the first coat of CIKOcoat RC70 over the sand blasted surface.

#### Application of primer

The base [Part-A] and hardener [Part-B] components of CIKOpoxy Prim11 / CIKOpoxy Prim14 should be mixed thoroughly using a heavy duty slow speed drill-paddle assembly for three to five minutes and ensure a homogenous mix. Application should be carried out as per the respective technical data sheet and allow to dry.

conditions. Apply subsequent coats once the basecoat gets properly dried.

#### Precautions

Prior application of primer and coating, 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.
- Relative humidity is below 75%.

#### Packaging

CIKOcoat RC70 is available in 4.0 and 15 litre kits that consists of Part-A & B.

#### Shelf life

CIKOcoat RC70 has a shelf life of 12 months if stored in accordance with CIKO instructions.

#### Storage

CIKOcoat RC70 should be stored under cool enclosed shaded area at temperatures between 5 – 35°C.

#### Health & safety

CIKOcoat RC70 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.

Application	Steel	Concrete
I Coat	CIKOpoxy Prim 14	CIKOpoxy Prim 11
II Coat	CIKOcoat RC70	CIKOcoat RC70
III coat	CIKOcoat RC70	CIKOcoat RC70

#### Mixing

The base component [Part-A] of CIKOcoat RC70 should be mixed thoroughly using a heavy duty slow speed drill-paddle assembly and ensure a homogenous 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 of topcoats

Properly mixed material should be applied using brush or roller over the dry and clean primed surface, maintaining the required thickness. The coated surface should be left for 12 – 24 hours curing, depending on the prevailing ambient

#### 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

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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

