

# CIKOpoly WP

## Two components liquid applied elastomeric waterproofing coating

### Description

CIKOpoly WP is two components solvent free, liquid applied Polyurethane base water proofing coating for horizontal and vertical applications on concrete, mortar and cement block masonry surfaces. The cured material provides excellent elastomeric properties and can be used on a wide range of porous and non-porous substrates. It forms a seamless and watertight elastomeric membrane after curing.

### Properties

- Solvent free, Cold applied by brush, roller or spray.
- Elastomeric and flexible seamless membrane.
- High elongation.
- High abrasion resistance.
- Good chemical resistance.
- Suitable for applications on irregular surface.
- Resistant to salts, oil and alkaline solutions.
- Provides excellent bond strength on a wide range of substrates.
- Cured material is non-toxic and non-flammable.
- Easy to repair damaged areas.

### Application area

CIKOpoly WP is a high quality waterproof membrane coating for,

- Roof waterproofing.
- Wet area waterproofing beneath bathroom and kitchen tiles.
- Terrace and roof garden waterproofing.
- Moisture barrier coating under cladding.
- Substructure waterproofing.

### Physical properties

Form	Two component system Part-A : Liquid Part-B : Liquid
Colour	Black and grey
VOC (USEPA-24)	<50g/l
Solids	95-100%
Mixing ratio	Pre-weighed packs
Pot life @ 25 °C	30-35 minutes
Drying time	24 hours
Total curing	7 days
Service temperature	-5°C to +80°C
Elongation at break ASTM D 412	≥250 %
Tensile Strength ASTM D 412	≥ 2 N/mm <sup>2</sup>
Bond Strength ASTM D 7234-12	≥1.5 N/mm <sup>2</sup>
Shore A Hardness ASTM D 2240	65±3
Water Penetration BS EN 12390-8	NIL

### Coverage

CIKOpoly WP will provide coverage of 1m<sup>2</sup> per litre at 1mm wet film thickness.

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

### Application instructions

#### Surface preparation

The substrate shall be free from all loosely adhered particles, efflorescence, dust, oil, grease or any other contamination. In case of oil spillage, proper treatment should be carried out on the surface. All pot holes and wider cracks must be repaired using suitable material. The surface must be free from dampness and standing water.

Oil grease, varnishes rust, dust, mould on metal surfaces shall be removed by wire or stiff brushing and grit blasting than wipe with CIKOsol.

#### Priming

Substrate should be primed by either dilute CIKOpoly WP with 10% CIKOsol; alternatively CIKOpoly PU may be used.

The primer should be left to dry before applying CIKOpoly WP.

Note: New concrete or cementitious surfaces should be at least 28 days old and have moisture content of the substrate should be less than 4%.

#### Application

CIKOpoly WP is two component systems and requires proper mixing with a slow speed drill-paddle assembly.

The contents of base (part A) should be mixed thoroughly to disperse any possible settlement. The entire content of hardener should be stirred and added to base container.

Mix thoroughly for 2-3 minutes taking extra care to avoid air entrapment, Mix until a homogenous mixture is attained.

Improper mixing may result in product failure once mixed the material must be used in its pot life.

On the primed surface Apply CIKOpoly WP using brush, roller at a rate between 0.25 to 0.5 L/m<sup>2</sup>. Subsequent layers could be done only after first layer is tack free.

Apply Second coat of CIKOpoly WP at an opposite direction to first coat at the rate between 0.25 and 0.5 L/m<sup>2</sup>.

Care should be taken to coat the surface without leaving any gap.

For sub-structures, wet areas and roofs, the application total thickness should be min 0.7 mm up to 1.5 mm depending on performance requirements. Consult CIKO technical service department for further support.

A layer of fibre mesh can be used for additional strength.

Broadcast CIKOASG over the final wet coat of CIKOpoly WP to increase the mechanical key bonding in case of tile installation.

#### Packaging

CIKOpoly WP is available in 10 L kit consisting of Part A & B.

#### Shelf life

CIKOpoly WP has a shelf life of 12 months if stored in accordance with the recommended storage conditions.

#### Storage

CIKOpoly WP should be stored in original packing in dry and cold storage at temperature between 5<sup>0</sup>C and 25<sup>0</sup>C

#### Precautions

- Incorrect assessment treatment of cracks may lead to a reduced service life and reflective cracking.
- Moisture content of the substrate should be less than 4%.
- Avoid using in Exposed areas or else an aliphatic protective top coat must be applied.
- The application temperature shall be between 5–40<sup>0</sup>C and surface temperature must be +3<sup>0</sup>C above dew point.

#### Health & safety

CIKOpoly WP should not come in contact with eyes or to be swallowed. Ensure adequate ventilation and avoid inhalation of vapours.

Applicator should wear suitable cloths, gloves and goggles. Use barrier creams recommended providing 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

TDS/WP20 Rev.:4 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

