

OXIPROOF CPU

Single Component Moisture Cure Black Pitch Modified Liquid polyurethane membrane

Description

OXIPROOF CPU is an elastomeric, liquid applied pitch extended urethane rubber based waterproofing membrane formulated to give long lasting, maintenance free, and superior waterproofing protection for concrete and steel substrates. OXIPROOF CPU offers the most advanced waterproofing technology and is guaranteed to provide long term performance and security of the waterproof environment. OXIPROOF CPU forms a tough rubber like seamless membrane when cured.

Application

Waterproofing or vapor barrier protection of: waterproofing roof areas, wet areas, foundations and planters

- Cold applied, self-adhesive and easy to apply.
- Waterproofing roof Areas
- Wet areas
- Foundation & Basement and planters
- Ground floors
- Car park decks
- Inverted roofs & sunken slabs & Split Slabs
- Tunnels

Advantages

- Foundations
- Chemical resistant: Resists deterioration from dilute acids & alkali, oil, salts, bacteria, and common fuels.
- Single component, easy to apply.
- Applied by roller, brush, or airless spray. Eliminates the use of heating pots, torches and sealing tapes.
- Fast application under a wide range of climate conditions.

- Tenacious adhesion and high elastic recovery.
- Long term resistance to ponded water
- Provides a uniform, joint free, seamless membrane
- UV Stable and easily repairable
- Unaffected by rain soon after application
- High elongation permits membrane to stretch with movement in the substrate.
- Excellent crack bridging properties. Will bridge existing concrete cracks or post construction movement crack.
- Continuous monolithic (seamless) layer completely bonded to the substrate eliminates horizontal migration of water between membrane and substrate which can occur in the overlaps of torch and self-adhesive membranes, thus if the membrane is punctured, a leak can only occur directly below the damaged section of the membrane, allowing fast location and inexpensive repairs.

Properties

Color	: Black
Density at 30°C	: 1.30 - 1.40 g/cc
Tensile strength	: > 1.5 N/mm ² (ASTM D 412)
Elongation %	: >500 (ASTM D 412)
Shore A Hardness	: 40-50 (ASTM D 2240)
Recovery from 100%	: 95% (ASTM D 412)
Tear Resistance, N/mm	: >15 (ASTM D 624)
Adhesion to concrete	: > 1 N/mm ² (ASTM D 4541)
Initial Cure @ 35°C	: 12 hrs.
Full Cure @ 35°C	: 48 - 72 hrs.
Crack Bridging	: 3.2 mm (ASTM C1305)
Re-coat interval @35°C	: 12-24 hrs.
Minimum thickness Recommended:	1 mm over concrete
Moisture Vapor transmission, metric perms:	0.02 g/m ² /24 hours (ASTM E96-66)

Note: All values given are subject to 5-10% variation

Al Majara Polychem Industries LLC

P.O. Box. 66507 | Sharjah | UAE |

Tel +971 6 5360700 | Fax +971 6 5360701

Email : info@majorapc.com | www.oxichemicals.com

OXIPROOF CPU



Instructions for use

Surface preparation

Surface must be structurally sound, clean and dry and free from dust, grease, curing compounds, paint coatings, and other loose debris. Surface should ideally have a “sandpaper” profile roughness.

Recommended methods for preparing concrete are by sand or captive shot blasting; wire brushing or by pneumatic (scrabbling) tools.

Shrinkage and non structural cracks should be pre-treatment with a 1 mm coating of OXIPROOF CPU reinforced with polyester fiber cloth extending at least 50 mm on both sides of the crack. Allow to cure for 24 hours. Right angle or corner should have cant strips installed. A suitable can't strip can be prepared by mixing 1 part cement and 1 part fine clean sand and OXIBOND SBR additive. First apply 0.5 mm thick

OXIPROOF CPU on the corners Embeds a 100 mm width reinforcing polyester fiber on the bedding coat then apply a second coat of OXIPROOF CPU 0.5 mm thick completely covering the reinforcement. Allow to cure at least 12-24 hours. Install mortar canting on the corners extending on both sides by 50 mm. allow cure for 24 hours prior to general application.

Priming

Normally OXIPROOF CPU can be applied directly onto the surface and does not require priming. However, for highly porous surfaces apply OXIPROOF CPU @ 5-6 m²/lt. allow to cure for at least 4-5 hours prior to over coating with OXIPROOF CPU.

Application

OXIPROOF CPU and OXIPRIME UR can be applied by brush, short haired roller, or airless spray, both are two components products. The Product requires thorough mixing (for at least 3 – 5 minutes) with the mechanical drill fitted with a proprietary paddle prior to the application so

that a homogenous mix is achieved. Application should commence as soon as product mixing is completed.

Special notes

- Cold applied, self-adhesive and easy to apply.
- Excellent adhesion to vertical and horizontal surfaces.
- Do not apply OXIPROOF CPU on wet or damp substrates.
- Should not be applied if the substrate temperature is below 10oC or above 40oC.
- Provide adequate ventilation when installing in confined areas or spaces.
- Do not apply OXIPROOF CPU on porous surface such as blocks. Porous surface should first be rendered with 1:2 cement sand screed and primed with Oxiprime UR prior to coating of OXIPROOF CPU.
- OXIPROOF CPU contains tar and should not be used in potable water areas.
- Always use protective hand gloves and a mask when handling or applying OXIPROOF CPU

Coverage

1 m²/L @ 1mm Wet film thickness.

Note:

Theoretical coverage only applies to a smooth non porous substrate. When estimating quantity take off. It is normal practice to add 10-15% to the initial estimate to account for wastage and surface irregularity.

Cleaning and disposal

Clean all the tools with the water after use. Hardened materials can be removed mechanically only. Allow the waste to cure. Seal it into a suitable container and bury in landfill. Use licensed waste disposal contractor and consult the local authorities when disposing.

Packing

20 Litres pail

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Storage and shelf life

Store under cover, out of direct sunlight and at temperatures between 10°C to 25°C. In tropical climate the product must be stored in air-conditioned environment. Shelf life is up to 12 months when stored as per recommendations.

Health and safety

Always use protective clothing, eye goggles and rubber hand gloves when handling this product. Avoid contact with skin or eyes. If spilled on the skin, wash immediately with soap and plenty of water. Accidental splashes on the eyes should be immediately cleansed with water and medical attention sought.

Information

Al Majara Polychem Ind. LLC products are guaranteed against defective materials and are sold subject to standard terms and condition of sale, copies of which are available on request which are reasonable care it's taken compiling this technical data sheet, all recommendations regarding the use of product are made without guarantee since the conditions used are beyond the company' direct control. It is the customer responsibility to satisfy themselves that each product is fit for the purpose for which they indent to use it.

Quality Matters

All products originating from Al Majara Polychem Ind. LLC are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9000, ISO 14001 and OHSAS 18001.