

CIKOseal RB



Multi-purpose bitumen emulsion reinforced with rubber polymer

Description

CIKOseal RB is a rubberised bitumen emulsion used in several applications such as damp-proof and waterproof protective coating for horizontal and vertical applications over concrete, etc.

Special grade of bitumen is emulsified and reinforced with rubber and polymers along with other specialty additives to form a flexible seamless coating upon drying and exposure to atmosphere.

Properties & Advantages

- Single component product easy to apply.
- Multipurpose and versatile, water/damp proof and curing compound as well as vapor barrier.
- Fast drying allowing fast turnaround.
- Suitable for application on irregular surfaces.
- Excellent adhesion on wide range of substrates.
- Resistant to soil chemicals.
- Water based, non-toxic, asbestos free
- Non-flammable.
- Water resistant
- Low water vapor transmission

Application Area & Uses

- Tack coat on asphalt pavement surfaces.
- Damp-proof & waterproof coating over concrete foundations, back filled retaining walls, shallow sewage pits and pre-casted concrete items, etc.
- Vapour barrier & damp-proof coating in facades systems and sandwich panels constructions

Applicable Standards

CIKOseal RB complies with minimum performance requirement of ASTM C 309.

Physical properties

Form	High viscous liquid
Colour	Dark Brown to black
Residue by distillation	60 ± 3 % (ASTM D6997)
Density	1.04 – 1.12 kg/L
Service temperature	-5°C to +80°C
Rubber & polymer content	Min. 10%
Elongation at Break	>700% (ASTM D412)

Drying time (25°C, 50% RH)	≤3 hours (ASTM C309)
Water Resistance ASTM D2939	No blistering & no re-emulsification

Coverage & Recommended thicknesses

1L of CIKOseal RB theoretically covers 1 m² achieving 1000 microns WFT equivalent to 600 microns DFT.

- **For waterproofing:** apply minimum 4 coats to achieve 720 microns DFT (1200 microns WFT).
- **For damp-proofing:** apply minimum 2 coats to achieve 400 microns DFT (650 microns WFT).
- **As a vapor barrier:** apply minimum 2 coats to achieve 300 microns DFT (500 microns WFT).

The above given coverage figures are theoretical. Actual coverage may varies depending on the substrate, wastage and finish. Consult CIKO Technical department for further assistance and advice.

Chemical Resistance:

CIKOseal RB is resistant to a wide range of chemicals when tested in Accordance to ASTM D543, patching method. Specific data is available as per request.

Application Instructions

Surface preparation of Cementitious substrates

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 potholes and wider cracks must be repaired using suitable the suitable CIKO's concrete repair material and allow initial curing.

Finally, use an electric air blower or air compressor to totally remove any type of dust or debris prior proceeding.

Surface preparation of Metal substrates

Wire brush to remove rust, mildew and loose paint. In case of corroded surfaces, proper priming shall be done with the suitable water-based rust converter primer such as: Corrveter Rust Primer.

Mixing

CIKOseal RB is a single component product that requires stirring using a drill-paddle assembly or any other suitable means to ensure a homogenous solid distribution and eradicate any chances of settlement.

Priming

Prepare the surface by removing dust and debris. Test porosity and dryness with water. If water absorbs quickly without leaving a damp mark, apply a primer coat: CIKOPrimer WB using brush, roller, or sprayer. Alternatively, use CIKOseal RB diluted with 20% water as primer. Let the primer dry for 2 to 4 hours depending on ambient conditions.

Application method

Apply CIKOseal RB on properly cleaned or primed surface using brush, roller or spray at a consumption rate of 0.25-0.35 L/m² and allow drying for 2 to 4 hrs prior proceeding with the application of further coats. Further coats shall be applied at right angle to the precedent.

Curing, Protection and Subsequent Activities

Allow CIKOseal RB to cure for 24 hours, ensuring that the coating is protected from any exposure to water during this time. Following the initial curing period, subsequent activities should occur within the next 24 to 48 hours, depending on ambient temperatures and conditions. These activities may include the installation of protection boards, polyethylene sheets, and other necessary measures.

Packaging

CIKOseal RB is available in 15 ltr pail & 200 ltr drum.

Shelf life

CIKOseal RB has a shelf life of 12 months in unopened pails or drums and if stored in accordance with CIKO instructions.

Storage

CIKOseal RB should be stored under enclosed shaded area away from direct sunlight at temperatures between 5°C – 35°C.

Precautions & Recommendations

- Not to use over standing water.
- The ambient temperature during application must be between 5 – 40°C.
- Where harsh service conditions such as high-pressure underground water and severe climate conditions, it is recommended to use CIKOproof PUR-650.

Health & safety

CIKOseal RB should not come in contact with eyes or be swallowed. 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
- Waterproof and Damp-proof coatings
- Surface Treatments
- Walls, Flooring and Toppings
- Grouts and anchors
- Tile Adhesives and Grouts
- Concrete Repair Materials
- Adhesives and Bonding Agents
- Protective Coatings & Sealers
- Joint Sealants and Moulding compounds
- Sports Flooring
- Plastering Mortars
- Paints

Legal Notice and Warranty

CIKO warrants this product to be free from manufacturing defects and to meet the technical properties stated in the current Technical Data Sheet, if used as directed within its shelf life. Satisfactory results depend not only on quality of product but also on many factors beyond our control. CIKO makes no other warranty or guarantee, express or implied, including warranties of merchantability or fitness for a particular purpose with respect to its product. The sole and exclusive remedy of purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of CIKO. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by purchaser. CIKO will not be responsible for any special incidental, consequential including lost profits or punitive damages of any kind. Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on CIKO's present knowledge and experience. However, CIKO assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. CIKO reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified expert.

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All CIKO products are manufactured under a strict management system conforming to and in compliance with requirements of international standards of Quality, Environmental, occupational Health and Safety ISO 9001, ISO14001 and ISO45001.