

CIKOSeal RB+

Rubberised, emulsified bitumen seal coating

Description

CIKOSeal RB+ is a rubberised bitumen emulsion used as a cationic slow setting asphalt emulsion (CSS-1) which serves as a seal coat over Cement Bound Granular Mixtures in road constructions.

CIKOSeal RB+ also serves as a protective coating for horizontal and vertical applications on concrete; mortar and cement block masonry surfaces. It provides excellent resistance to soil chemicals.

Special grade of bitumen is emulsified and reinforced with rubber along with other specialty additives, stabilizers, coating improvers to form a flexible seamless coating after curing on exposure to atmosphere.

Properties

- Single component economical system.
- Easy to apply by brush, roller or spray.
- Suitable for application on irregular surfaces.
- Slow-setting cationic emulsion asphalt
- Provides excellent adhesion on wide range of substrates.
- Resistant to chlorides, sulphates and other soil chemicals.
- Non-toxic and non-flammable.
- Can be applied in wide range of conditions.

Application area

- Seal coat over CBGM surfaces.
- As damp-proofing coating on foundations, back filled retaining walls, shallow sewage pits etc
- Wet area waterproofing beneath bathroom and kitchen tiles.
- Waterproofing of garden pots.

Applicable standards

CIKOSeal RB+ complies with the following:

- BS EN 13808:2005: Class C60 B3-Bitumen and bituminous binders. Framework for specifying cationic bituminous emulsions.
- ASTM D 977 Standard Specifications for Emulsified Asphalt.

Physical properties

Form	High viscous liquid
Colour	Dark Brown
Solid Content	60% ± 3 by weight
Rubber content	Min. 10%
Specific gravity	1.01-1.05 @ 25°C
Surface Drying time	within 6 hours @ 25°C
Service temperature	-10°C to +100°C
Chemical resistance	Resistance to chlorides, sulphates, mild acids and alkalis

Properties	Min	Max
Viscosity, Saybolt Furol at 50°C (SFS)	20	100
Sieve test (%)	-	0.1
Cement mixing test (%)	-	2
Residue by distillation (%wt)	57	-
Penetration on residue 100g, 5s, 25°C	100	250
Solubility in trichloroethylene (%wt)	97.5	-
Storage stability, 1 day, %	-	1
Ductility, 25°C 5cm/min., cm	40	-
Particle charge test	Positive	

Coverage

CIKOSeal RB+ provides coverage as follows.

330 microns wet film thickness per coat 3.0 m² per litre

Minimum two coats recommended depending on application area. Consult CIKO technical service department.

Note: Coverage rate may vary depending on substrate condition and finish.

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.

Mixing

CIKOSeal RB+ is a single component system and requires only mixing using a slow speed drill-paddle assembly.

Priming

Make sure the surface is free from dust and loose particles. If the surface is too dry and porous, apply a primer coat of CIKOSeal RB+ diluted with 20% clean water and mixed well using a slow speed heavy duty drill-paddle assembly can be used as primer.

Application method

Apply CIKOSeal RB+ on properly cleaned vertical surfaces using brush, roller or spray at the consumption rate of 0.35 L/m² per coat and allow drying for 12 - 24 hours prior to application of second coat. Care should be taken to coat the surface without leaving any gap. In similar way, apply a second of CIKOSeal RB+ over first coat at the rate of 0.35L/m².

When applied in horizontal surfaces as a seal coat over CBGM, it is recommended to apply CIKOSeal RB+ at a minimum rate of 1L/m² up to 1.5L/m².

CIKOSeal RB+ may be used and mixed with aggregates at ambient temperatures. Aggregate are not required to be completely dry.

Packaging

CIKOSeal RB+ is available in 15 litre pails and 200 litre drums.

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 at temperatures between 5 – 35°C.

Precautions

- Not to use over standing water.
- The application temperature must be between 5 – 40 °C.

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
- 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