

# CIKOshield VB

Smart Chemical Solutions



## High build Vapour barrier membrane coating

### Description

CIKOshield VB is an excellent vapour barrier and waterproofing membrane coating for horizontal and vertical applications on concrete, polyurethane foam; mortar and cement block masonry surfaces. It exhibits excellent resistant to ultra-violet (UV) rays.

CIKOshield VB is based on special polymer with other additives to form seamless and watertight elastomeric membrane after curing on exposure to atmosphere.

### Properties

- Single component system and ready-to-use packing.
- Cold applied by brush, roller or spray.
- Elastomeric and flexible seamless membrane.
- High water vapour retention
- Suitable for interior and exterior applications even on surface having irregular profiles.
- Excellent resistance to aging and UV rays.
- Provides excellent bond strength against wide range of substrates.
- Non flammable.
- Non-toxic and non-hazardous.

### Application area

CIKOshield VB is a high quality waterproof membrane coating that can be used for interior and exterior applications.

- Roof waterproofing on wide range of substrates such as concrete, sand-cement screed, wood, asphalt, terrazzo tiles etc.
- Wet area waterproofing beneath bathroom and kitchen tiles.
- External waterproofing for basements and pits.
- Terrace and roof garden waterproofing.

### Physical properties

Form	Viscous liquid/paste
Colour	Grey or white
Solid content	>75%
Application temperature	5°C - 40°C
Curing time @ 25°C	Approx. 24 hours
Service temperature	-5°C to +80°C
Water Vapor Transmission ASTM E96 Method B	<1perm (grain/hr) @0.5mm WFT
Water permeability	NIL
Pull off strength (ASTM D4541)	>1MPa
UV resistance	No deterioration in properties
VOC (EPA 24)	<20g/l

### Coverage

Each pack of CIKOshield VB provides coverage as follows.

1mm dry film thickness in two coats	1.8-2.5kg / m <sup>2</sup>
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Note: Coverage rate may vary depending on substrate condition and type.

### 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.

#### Tiled roof:

Loose and broken tiles must be removed and replaced with new tiles. The joints between the tiles must be filled with a non shrink material and levelled to the surface.

#### Mixing

CIKOshield VB is a single component system and requires only slight mixing using a slow speed drill-paddle assembly.

### Priming

For priming, dilute CIKOshield VB with 20% water [by volume] and mix it well to homogeneity using a slow speed heavy duty drill-paddle assembly.

### Application method Primer application

On porous substrates apply a thin coat of primer using brush or roller and allow drying. Primer coat will penetrate and seal the pores and is recommended to achieve full efficiency of CIKOshield VB as waterproofing membrane.

Note: Metal or non porous surface dose not need primer coat.

### Topcoat

Apply neat CIKOshield VB (without dilution) on the primed surface using brush, roller or spray at the rate of 1.0 litre per square meter per coat and allow to dry for 24 hours prior to application of second coat. Care should be taken to coat the surface without leaving any gap. In similar way, apply second of CIKOshield VB over the first coat at the rate of 1.0 litre per square meter.

### Packaging

CIKOshield VB is available in 20kg pails.

### Shelf life

CIKOshield VB has a shelf life of 12 months in un- opened pails and if stored in accordance with CIKO instructions.

### Storage

CIKOshield VB should be stored under enclosed shaded area.

### Precautions

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

### Health & safety

CIKOshield VB 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