

BC Memb Black PU

Description:

BC Memb BlackPU is one-component, liquid, cold applied waterproofing membrane based on polyurethane resin. It is primarily designed to give superior waterproofing and protection to virtually all substrates. It reacts with moisture in the atmosphere and forms an impervious, rubberized membrane that resists water, oil, fuel and other common air pollutants. It is an advanced state-of-art water-proofing system and offers tangible, cost savings benefits over conventional sheet and bitumen based systems.

Features & Advantages:

- Maintenance free waterproofing system Easy to apply, by brush, roller or spray. Eliminates the use of adhesives, sealing tapes, blow torches, heating kettles commonly associated with sheet type or bitumen based system. No need for highly skilled laborers.
- Adheres tenaciously to any substrate and remains flexible under extremes of temperature, will not crack or become brittle with age.
- Due to efficiency in application, labor cost is reduced and results in shorter completion time of construction.
- Resists deterioration from salts, acids, oil, alkali solutions, gasoline and bacteria Versatile, nonflammable and non-toxic.
- Does not create mess and objectionable odor like bitumen based materials. Provides a seamless (no joint) waterproofing unlike sheet type membranes whose application is susceptible to water leak coming from the seams. No waste and cuttings.

Basic Uses:

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Surface Preparation:

Remove all dirt, laitance, oil grease, wax and other loose materials from the surface using a stiff nylon or steelbristled brush followed by compressed air. Voids, crack, and irregular surface with at least 3 mm depth shall be filled or levelled with mortar screed and allowed to cure at least forty eight (48) hours.

Priming:

Prepare primer coat by mixing one (1) part Xylene to three (3) part by volume. For horizontal or vertical surfaces, apply a thin coat of primer. Airless spraying equipment's may also be used. Care should be taken that no excess liquid collect on the edges of the wall converging on the floor. If this occurs, the liquid must be evenly spread out by brush. Allow to cure prior to the next coat (usually from 10-14 hours). Best results can be obtained by limiting the thickness of the prime coat between.

Building Chemistry Industry

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Physical Properties:

PROPERTIES	RESULTS
Tensile Strength - 200% Modulus AS TM D 412	200 psi
Tensile Strength/ Modulus at break ASTM D 412	435 psi or 3 MPa
Tensile set recovery % AS TM D 412	95
Elongation% AS TM D 412	440-450
Low temperature flexibility Cracking as per ASTM C-836	None
Adhesion to mortar, n/mm AS TM D 413 Type A	3325
Water vapor permeability, Metric perms ASTM E-96 method bw	0.4
Shore A hardness AS TM D 2240	45
Tear resistance, KN/m AS TM D-624 die C	25.1
Heat aging % weight loss 7 days at 82° C	0.92
In service temperature 20- hours @ 121° C	No cracking No shrinkage and 435% elongation
Brittleness temperature° C AS TM D-746	-42

First And Succeeding Coats:

After the prime coat has cured, apply a thin coat of (without xylene) starting with the vertical surface. Ensure that the edges of the vertical surface are evenly coated with P.U. and extends to the horizontal surface by 100 mm. Disperse liquid that may collect on the edges. Coating shall be allowed to cure at least one (1) day prior to the succeeding coats. Thickness should be limited to 0.5 0.6mm per coat. Opti- mum performance can be obtained at a total membrane thickness of 1.0 mm including

Coverage:

16 SQM at 1000 micron thickness depending upon the surface condition.

Packing:

Available in 20 ltr/kg pail unlike bulky sheet type mem- branes.

Caution:

- Do not apply on wet or unprepared surfaces.
- Avoid inhalation or contact with skin or eyes. In such events remove the person to fresh air, water with cleanwater over the affected area and call for medical attention. Smoking should be strictly prohibited during application.
- In confined areas of application, breathing should be made available for operatives.
- Use protective clothing gloves, mask, goggles, etc.

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