

B2THANE LAM SB MC 20

1K High Tensile Solvent Based PU Moisture Cured Liquid Applied Membrane

Description

B2Thane LAM SB MC 20 is aromatic, single component, solvent based, high tensile, moisture cured, modified Polyurethane elastomeric, hydrophobic, liquid membrane for waterproofing with high elongation. When applied, it forms a seamless, monolithic membrane by reacting with atmospheric moisture.

Characteristics – Physical

Color	Light Grey
Application	Brush / Roller / Airless Spray
Substrate temperature, °C	5 - 60
Service temp, range, °C	
<ul style="list-style-type: none"> Intermittent Continuous 	Up to +150 - 40 to +70
Ambient temperature, °C	5 - 50
Cure Time, hrs. (Touch Dry)	36 - 48
Tack free time, hrs.*	10 - 14
Theoretical Coverage, Kg/m ² , 1 mm DFT	1.58 - 1.60
Recommended thickness, micron	1000
Solid content, % by weight	90 ± 2
VOC Content, gm / kg	115 ± 5
Pot life, minutes	60 ± 10
Trafficable time, hours	24 - 36

Characteristics – Technical

	ASTM	
Tensile strength, MPa, 14 days	D 412	> 2.0
Tear Resistance, N / mm	D 624	15
Adhesion to primed concrete, Pull-off strength, MPa	D 7234	2.0 ± 0.5
Elongation, %, 14 days		
<ul style="list-style-type: none"> Without Reinforcement 	D 412	400± 50
Hardness, Shore A, 14 days	D 2240	45 ± 5
Water Absorption, (%)	D 471	≤ 0.5
Crack Bridging, mm	EN1062	≤ 2
Recovery @ 500% Elongation, %	D 412	60 ± 2
Water Vapor Transmission (1.0 mm thickness), g / m ² / hr.	E 66	0.65
Water Permeability @ 5 bar Water Head Pressure	-	Nil

Version 24175

Field of Application

- Roof / Terraces / Podium
- Terrace garden

Advantages

- Excellent waterproofing characteristics.
- High crack bridging.
- Monolithic and seamless membrane.
- Excellent adhesion to concrete.
- Resistant to root growth.
- High durability & high elongation property.
- Easy application and user friendly.

Application

Prepare the Surface

- Remove all loose gravel, dirt, oil, grease, and foreign matter by jet of dry air and clean the surface mechanically or by grinding to make it smooth before application.
- Repair all cracks by cutting "V" groove and fill with PMC mortar prepared in the ratio of Crete: Cement : Sand (1 : 2 : 5).
- Correct honeycomb / other minor surface defects with PMC mortar.
- Ensure that the moisture content in the prepared surface does not exceed 5% immediately before application of B2Thane LAM SB MC 20.
- Ensure provision of slope in the gradient of 1:100 towards drain by laying PCC admixed with integral waterproofing compound preferably with galvanized chicken wire mesh.
- Provide fillet 75 mm x 75 mm coving made out of PMC mortar as above.

Preparation of the Material

- Skin formation may happen on the top of material during humid condition. In that event, cut skin from the periphery of the container and remove it.
- Stir both components of B2Thane LAM SB MC 20 by a slow speed mixture fitted (100 rpm max) with a suitable mixing paddle to ensure a homogenous mix.
- After stirring, ensure release of entrapped air and wait for the product to settle.
- Use the entire material within 4 hours of opening the container.

Application of the Material

In case of Horizontal application.

- Prime the surface and allow the primer to touch dry condition.
- Apply 1st coat of B2Thane LAM SB MC 20 @ 650 gm / m² by brush / roller / airless spray while the primed surface is tacky. For faster and smoother application,

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apply with airless gun.

- If required, spread non-woven geo-textile or Glass Fiber Tissue of 45 GSM with overlaps of 50 mm in both directions when the surface is still tacky.
- Allow 1st coat to dry for 10 - 12 hr.
- Apply 2nd coat B2Thane LAM SB MC 20 @ 650 gm / m² by brush / roller / airless spray.
- Ensure final curing time of 36 hrs before allowing / carrying out any further work.
- Extend waterproofing treatment up to 150 mm and terminate into groove on the parapet wall. Fill the groove with PMC mortar.

In case of vertical application, protect the applied liquid membrane by sprinkling sand @ 200 gm / m² over the final coating when the surface is still tacky.

In case of horizontal Trafficable surface, protect the applied liquid membrane by spreading a layer of 200 GSM geo-textile, with overlap of 50 mm in both directions on fully cured waterproofed surface before laying protection screed, and then lay 50 mm plaster with admixture.

In case of horizontal non-trafficable surface, protect the applied B2Thane LAM SB MC 20 with topcoat of 500 microns aliphatic liquid applied membrane.

Conduct ponding test after 7 days of curing at ambient temperature.

Precautions

- Do not allow any movement over waterproofed area unless ponding is done, and waterproofed area is protected as below.
- Do not open the containers until ready to use.
- It should be noted that B2Thane LAM SB MC 20 is aromatic polyurethane; therefore, as with all aromatics, over a period, color change will occur if exposed to UV rays. This will not cause any negative effect on the physical properties of the product.

Health and Safety information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet.

- This product contains Isocyanate. Avoid contact with eyes and skin.
- Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Ensure that there is adequate ventilation in the area where the product is being applied.
- Do not breathe in vapor or spray mist.
- This product is flammable.
- Keep away from sources of ignition.
- In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.
- Eye protection during application is recommended.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of skin contact, wash with soap and plenty of water. Get medical attention if irritation develops or persists.

Cleaning & Maintenance

Clean all tools immediately after use with Thinner only. Do not allow the material to harden.

Packing

Available in 25 kg Drums.

Storage

Store in a cool dry clean place, at 4°C - 27°C in original sealed container.

Shelf Life

12 months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5 - 38 °C.