



## **BM SELF AL**

### **Aluminum Surfaced Self Adhesive Membrane**

#### **DESCRIPTION**

**BM SELF AL** is a cold applied self-adhesive, flexible, waterproofing and protection membrane made from rubber modified bitumen compound with Aluminum surfaced solar reflective film on its upper side as protection layer. It has a detachable silicone film on the underside.

#### **PROPERTIES**

**BM SELF AL** is a non- reinforced waterproofing self-adhesive membrane where the upper facing serves dual purpose of acting both as reinforcement and protection. It is a solar reflective film with an Aluminum surface. The membrane proffers outstanding solar reflectance, puncture resistance, breaking strength and temperature resistance. It has the following features:

- Cold applied, no heating required
- Aluminum surfacing which provides outstanding solar reflectance
- Permanent flexibility and protection against water
- Effective barrier for both water and vapor
- Absorbs substrate movement
- Safe for ground water, no contamination

#### **USES**

- Waterproofing in general, where the use of fire/flame is not possible
- Waterproofing structural can also be used as a flashing on up-stands
- Provides waterproofing and protection to underground structures
- Serves as waterproofing membrane for inverted roofing systems
- Waterproofing of balconies, bathrooms, swimming pools, tunnels

#### **APPLICATION**

##### **Installation:**

1. Substrate preparation: The substrate must be smooth, clean, and free from oil/grease and defects. Presence of such irregularities might damage the membrane. Use a wire brush or broom and remove dirt, dust or any other contaminants.
2. Priming: Apply **BM PRIME SBD41** on the substrate and let it dry. Prime only the area which will be covered by the membrane in a particular working day. If not covered within 24hours of the application of the primer then the area needs to be reprimed. Application of the primer should be by a brush or roller at a rate of 0.3~0.4 Ltr/sq.m depending on the porosity of the surface. Metal or plastic surface do not require any priming.
3. Laying of Membrane: - Fill all the angles with cement mortar or bitumen mastic. Use strips of **BM SELF AL membrane** to prepare angles, edges, corners, roof penetrations, horizontal joints for reinforcement and better adhesion of the membrane. Slowly and bit by bit peel back the release film over a width of about 30cm. at the start of the membrane. Lay the adhesive side on the substrate and press it into contact. Uniformly peel back the release film further simultaneously pressing the membrane firmly against the substrate. Use a cloth or soft brush starting at the center and gradually move towards the

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edges so as to keep the bubbles from forming. Adjacent rolls are aligned and overlapped with a minimum of 65mm on the sides and 100mm at the ends. Press the overlap securely using a rubber roller after removing the silicone release film. **BM SELF AL** membrane should not be applied at a temperature below - 5°C. It should not be exposed to weathering and needs to be protected suitably.

## TECHNICAL DATA

PROPERTIES	TYPICAL VALUE	TEST STANDARD
Coating asphalt	Rubber modified self-adhesive asphalt	-
Softening point °C	105±5	ASTM D-36
Penetration, @25°C (dmm)	50±5	ASTM D-5
Low temperature cold flexibility, °C	≤-15	ASTM D-1970
Heat resistance @ 80°C	No flow	ASTM D-5147
Tensile strength ( L/T), ( N/mm <sup>2</sup> ),[FILM]	40/45	ASTM D-882
Elongation at Break ( L/T), % [FILM]	150/150	ASTM D-882
Tear resistance ( L/T) (N/mm ) [FILM]	20/20	ASTM D-1004
Puncture resistance, ( N )	>220	ASTM E-154
Hydrostatic pressure@5bar (50m)	No leakage	EN 12390 (part 8)
Lap joint strength, (N/mm )	2.0-2.5	ASTM E-154
Water absorption,%wt@23°C,24hrs	0.15	ASTM D-570
Impermeability to water	Pass	EN 1928

# All values given are subject to 5-10% tolerance

## COVERAGE

Coverage differs depending on the surface condition:

BM SELF AL - Flat Areas: 1.1m<sup>2</sup>/m<sup>2</sup> (Approx.) per layer with min.65mm Overlaps and min100mm end laps.

Average

wastages: 2-3%.

BM PRIME SBD41 - Smooth Surface: 0.3-0.4 Ltr/m<sup>2</sup> ( Approx.) will give a Dry film thickness of 100 microns.

## STORAGE

The rolls must be stored vertically in a covered area. They should not be exposed to direct sunlight, UV and other sources of heat. The product is best used within 12 months from the date of production. Excessive exposure to sunlight and UV may lead to deterioration of the product quality.

## HEALTH AND SAFETY

BM SELF AL membranes contain sticky compound and can stick to human skin. In such cases use a soft cloth dipped in a suitable cleaner to remove the membrane.

## SUPPLY

Nominal roll length: 10m, 15m, 20m; Nominal roll width: 1m; Nominal thickness: 1.5mm, 1.8mm and 2.0mm

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