

Torch applied SBS modified bituminous membranere inforced with the 200 GSM of non woven polyester mat.

General Description:

SI DIAMOND -20 is a high performance multi-ply pre-fabricated torch applied SBS modified bituminous membrane, reinforced with 200gsm of non woven polyester and finished with the polyethylene film or mineral stone.

SIFC waterproofing compound is formulated by Blended with selective grade of bitumen and modified with the styrene butadiene styrene (SBS) polymers that is provide high tensile, elongation and tear resistance excellent heat stability & low temperature flexibility i.e. common required for project applications for waterproof applications & protection against damps.

Application Areas :

SI DIAMOND -20 It is an ideal for all kind of waterproofing areas, especially in basement, swimming pool, water tank, seepage, bathrooms, terraces, Roof, beams and columns, footing, pipe capping, car parking, bridge decks, duct & ramp area, highway or airports, .

Features :

- Torch applied quick melt easy to use.
- High performance waterproof in cold weather.
- High tensile, elongation and tear strength.
- Excellent adhesion strength.
- Higher self life.
- High impact and puncher resistance.
- Resist attack from salt and alkalis.

General Data :

Nominal thickness : 2mm, 3mm, 4mm, 5mm, 6mm.
Nominal size : 1x20, 1x10, 1x8, 1x6 mtrs.
Reinforcement : Non woven polyester 200gm/m2
Black surface : Both side with polyethylene film installed under protection course.
Slated surface : Granule stone for exposed are of application.

Quality Control :

Manufacturing facility is certified with the QMS-ISO 9001:2015, HMS-ISO 45001:2018 and EMS- ISO 14001:2015. In order to regular test conducted by our laboratory, our product is tested by independent internal laboratories.

Follow Standard Methods :

SI DIAMOND -20 complies with the list standard.
ASTM D6164 EN-13969:2004, EN-13707:2004

Packaging :

SI DIAMOND -20 is manufacturing under standard size And roll are palletized and covered with a shrink-wrapped.

Tools Required :

Gas torch, Gas cylinder, measuring tape, Trowel, Knife, Marking string etc.

Application Method :

Surface preparation: The surface must be thoroughly clean, dry, sound and free from crack, loose particles, dust, oil and grease, laitance or other contaminations.
Surface Priming: The entire surfaces must be primed by solvent based bituminous primer (primer D-41).

Application Limitation :

- Use smooth and flat safety shoe and other required safeties.
- Do not install in moist surfaces or raining weathers.
- Avoid overheating.
- Avoid step up/walking over hot applied membrane.
- Avoid installing second layer continuously.

Installation Method:

SI DIAMOND -20 can be installed in a multi layers.
• Insure that the surface to be waterproof must be thoroughly clean, dry, sound and free form humidity.
• Unroll **SI DIAMOND -20** membrane with align the side laps of minimum 10cm and then re-roll it.
• Stand on the unrolled position to prevent shifting with minimum over lap of 10cm and end lap will be 15cm can be installed with fully bonded.
• Make sure that the heat required only the PE films to be melted and asphalt coating is sufficiently softened press firmly against the lap to ensure complete adhesion.
• The entire corners, pipes, beam and column section can be waterproof by cut and fit methods.
• The mineral surfaces can be used for exposed areas either horizontal or vertical surfaces.

Storage & Handling :

- Keep the material in dry, cool, ventilated and shaded areas.
- Do not store exposed in the sun or humid areas.
- Do not store pallet above the pallets.

SI DIAMOND -20

2mm . 3mm . 4mm . 5mm . 6mm

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SR	PROPERTIES	UNIT	VALUE	TEST METHOD
1	Softening point	C	125	ASTM D 36
2	Penetration	dmm	35	ASTM D 5
3	Cold Flexibility	C	-20	ASTM D 5147
4	Heat Resistance (@ 120 C for 2h : 15 min)	Pass	No flow	ASTM D 5147
5	Tensile Strength @ 23 + 2 C			
	Longitudinal	N/5 cm	950	ASTM D 5147
	Transversal		700	
6	Elongation @ 23 + 2 C	%		ASTM D 5147
	Longitudinal		50	
	Transversal		55	
7	Lap Joint Strength	N/5 cm		UEAtc M.O.A.T 31
	Longitudinal		950	
	Transversal		700	
8	Tear Strength	N		ASTM D 5147
	Longitudinal		600	
	Transversal		500	
9	Puncture Resistance	N	1000	ASTM E 154
	Static		L4	UEAtc 5.1,9
	Dynamic		L4	UEAtc 4.4.1
10	Dimensional Stability	%		
	Longitudinal		>0.1	ASTM D 5147
	Transversal		>0.1	
11	Resistance to Aging (after 2000 hrs)		No deterioration	ASTM D 4799
12	Water Absorption (@ 25 C for 24 hrs)	%	<1	ASTM D 5147
13	Water Vapour Transmission	g/m24/2hrs	<0.35	ASTM E 96
14	Resistance to leaking at joints		pass	UEAtc

NOTE : **SI DIAMOND -5** cold Flexibility as per your request (-5, -10,-15 &-20) available.
IN ACCORDANCE TO ASTM AND UEAtc STANDARDS RESULTS ARE SUBJECTED TO A VARIATION OF 20 % .

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