

Torch applied APP modified bituminous membrane reinforced with the 250gsm of non woven polyester mat.

General Description:

SI FLAME SHIELD 250 is a high performance multi-ply Pre-fabricated torch applied APP modified bituminous membrane, reinforced with the 250 GSM 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 attactic polypropylene (APP) polymer that is provide high tensile, elongation and tear resistance excellent heat stability & low temperature flexibility i.e. common required project applications for waterproof applications & protection against damps.

Application Areas :

SI FLAME SHIELD 250 It is an ideal for all kind of waterproofing areas, such as Roof, basement, beams and columns, footing, pipe capping, car parking, bridge decks, duct & ramp area, highway or airports, swimming pool, water tanks , bathrooms & kitchen etc.

Features :

- Torch applied easy to use.
- Excellent water and heat resistance.
- High tensile, elongation and tear strength.
- Excellent adhesion strength.
- Resist against damping.
- 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 250gm/m2. mat
Black surface : Both side with polyethylene film installed under protection course.

Quality Control :

SI FLAME SHIELD 250 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 SAUDIA INSULATION laboratory, our product is tested by independent internal laboratories.

Follow Standard Methods :

SI FLAME SHIELD 250 complies with the list standard ASTM, D 6222 EN-13969:2004, EN-13707:2004

Packaging

SI FLAME SHIELD 250 is manufacturing under standard size and roll are palletized 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-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 FLAME SHIELD 250** 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 FLAME SHIELD 250** 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 FLAME SHIELD 250

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



SR	PROPERTIES	UNIT	VALUE	TEST METHOD
1	Softening point	°C	155	ASTM D 36
2	Penetration	dmm	15 : 20	ASTM D 5
3	Cold Flexibility	°C	-5 : -10	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	1000	ASTM D 5147
	Transversal		750	
6	Elongation @ 23 + 2 °C	%		ASTM D 5147
	Longitudinal		50	
	Transversal		50	
7	Lap Joint Strength	N/5 cm		UEAtc M.O.A.T 30
	Longitudinal		1000	
	Transversal		750	
8	Tear Strength	N		ASTM D 5147
	Longitudinal		650	
	Transversal		500	
9	Puncture Resistance	N	1100	ASTM E 154
	Static		L4	UEAtc 5.1,9
	Dynamic		L4	UEAtc 4.4.1
10	Dimensional Stability	%		
	Longitudinal		> 0.6	ASTM D 5147
	Transversal		> 0.6	
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	< 0.5	ASTM E 96
14	Resistance to leaking at joints		pass	UEAtc

NOTE : THE ABOVE SHOWN TECHNICAL DATA ARE RESULTS OBTAINED IN LABORATORY AND EXTRA DETAILS CAN BE PROVIDED UPON REQUEST. IN ACCORDANCE TO ASTM AND UEAtc STANDARDS RESULTS ARE SUBJECTED TO A VARIATION OF 20 % .

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سعودية
MADE IN KSA



SI INSULATION