

TORCHGARDEN-A

ELASTOPLASTOMERIC POLYMER SBS WATERPROOFING
MODIFIED MEMBRANES FOR SPECIFIC APPLICATIONS



CC Technique Product Data Sheet

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Division: 7

Thermal & Protection

■ The Product

TORCHGARDEN-A is a waterproofing membrane obtained from distilled asphalt modified with plastomeric and elastomeric polymers SBS. TORCHGARDEN-A is polyester reinforced with a special additive compound acting as anti-root.



■ Uses

TORCHGARDEN-A is used specially for waterproofing of underground works like gardens, garages and gallery with backfilling.

■ Physical and chemical characteristics

- Bitumen polymer elastomeric compound.
- Excellent resistance to high and low temperatures.
- Absolute water tightness.
- Good resistance to acids and alkaline (see resistance table).
- Suitable for cold areas.
- Excellent resistance for the roots.

■ Finishes

Fine sand or natural gray slate chips cover the upper surface of TORCHGARDEN-A membranes.

- The lower surface has Torch flam heat sensitive plastic film which prevents the roll from sticking together and to ensure that the roll unwinds correctly. This surface is again embossed with a pattern of small squares to help the Torch flam film in melting quickly to allow gases to escape and also act as a temperature indicator to show. The compound has reached the correct fusion temperature.
- The cavity must be packed with a suitable joint filler
- E-Joint must be wiped with a solvent to remove all traces of grease or oil.

■ Tools requirement

For the correct installation of TORCHGARDEN- A type membranes, all that is required is a propane gas roofing torch complete with gas bottle, and at least 10m of approved type hose, a round nosed trowel or spatula, a utility knife and a pair of gloves.

■ Installation

The surface where the material is to be installed must be smooth, clean, dry and treated with primer. The TORCHGARDEN-A membrane is unrolled and laid out on the dry primer coating which will enhance the adhesion to the deck. It is then aligned before being rolled up again. The membrane is then slowly unrolled while the lower surface is heated using the propane gas roofing torch until the Torch flam melts and the bituminous compound itself starts to melt.

Side laps must be at least 75mm and head laps 150mm. After forming the overlap, the joint (while still hot) must be pressed using a round nosed trowel to ensure that the joint is correctly formed and to level the molten bituminous compound which will inevitably seep from a correctly executed joint. The hot surface of the membrane should not be scraped using the trowel to avoid exposing the carrier.

CONSTITUTIVE ELEMENTS		DIMENSIONAL DATA
Compound	SBS Polymer bitumen modified	Roll length UNI 8202/3 10M
Upper surface finishing	Fine sand Slate granules (mineral types)	Roll width UNI 8202/4 1M
Lower surface finishing Type of additive in the Compound	Polyethylene torchable film Chlorotoyloxypropionic Acid Polyglycol Ether	

PHYSICAL CHARACTERISTICS	
Impermeability to water UNI 8202/21	Absolute
Behavior in water UNI 8202/22 part 6	Absorbed quantity < 1% Weight loss due to solubility < 1%
Water vapor diffusion factor UNI 8202/23	> 80.000

PERFORMANCE COMPOUND	
Ring & Ball temperature In the impregnation tank. ASTM D 36	>150 C

Finished Product	
Carrier	180 gr/m polyester
Cold flexibility UNI 8202/15	-10° C
Heat stability	> 120° C
Mass UNI 8202	4.0/4.5/5.0 kg/m (plain) 4.0/4.5/5.0/5.5 kg/m (mineral)
Thickness UNI 8202/7	3.6/4.0/4.5/5.0 mm
Tensile strength - UNI 8202/8	
At breaking longitudinal	860 N/5cm
At breaking transverse	600 N/5cm
Elongation - UNI 8202/8	
At breaking longitudinal	43%
At breaking transverse	45%
Static puncturing resistance	
On concrete - UNI 8202/11	SP 4
On expanded polystyrene - UNI 8202/11	SP 4
Dynamic puncturing resistance	
On concrete. UNI 8202/11	DP 4
On expanded polystyrene. UNI 8202/11	DP 4
Joint pressure resistance in airs UNI 8202/31	> 10kPa

Code	Description	Unit of sale	Width	Base Unit
MI320410	Torch Garden A, SBS Plain (4mmx1Mx10M)	ROLL	10	sqm