



Edition: May 2009
Version: 9051

Division: O3
Section: # 07510

TORCHGARDEN-S

SBS polymer modified waterproofing membranes for specific applications

● THE PRODUCT

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

● USES

HIPLY PLAIN

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

● PHYSICAL AND CHEMICAL CHARACTERISTICS

BITUMEN POLYMER ELASTOMERIC COMPOUND

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

Excellent resistance for the roots

POLYESTER FILM

● FINISHES

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

The lower surface has torch flame 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 flame film in melting quickly to allow gases to escape. It also acts as a temperature indicator to show that the compound has reached the correct fusion temperature.

● PACKAGING

Rolls are generally 1m wide and 10m long. The top tape indicates the brand name, the middle one indicates the weight or thickness of the product and the lower tape indicates the product type. The rolls are supplied on wooden pallets and are held in place by a protective heat shrunk polythene covering. Each pallet has two control dockets which enables the laboratory characteristics of the product to be readily identified.

● TOOL REQUIREMENTS

For the correct installation of TORCHGARDEN-S type membranes, all that is required is a propane gas roofing torch complete with gas bottle, and at least 10 m 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-S 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 flame melts and the bituminous compound itself starts to melt.

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	Polythylene torchable film		
Type of additive in the Compound	Chlorotoyloxypropionic Acid Polyglycol Ether		

PHYSICAL CHARACTERISTICS

Impermeability to water UNI 8202/21	Absolute
Behavior in water UNI 8202/22 part 6	Absorbed quantity $\leq 1\%$ Weight loss due to solubility $\leq 1\%$
Water vapor diffusion factor UNI 8202/23	≥ 80.000

PERFORMANCE COMPOUND

Ring & Ball temperature In the impregnation tank . ASTM D 36	$\geq 150^{\circ}\text{C}$
---	----------------------------

FINISHED PRODUCT

Carrier	180 gr/m ² polyester
Cold flexibility UNI 8202/15	-20° C
Heat stability	> 120° C
Mass UNI 8202	4.0/4.5/5.0 kg/m ² (plain) 4.0/4.5/5.0/5.5 kg/m ² (mineral)
Thickness UNI 8202/7	3.6/4.0/4.5/5.0 mm
Tensile strength - UNI 8202/8 At breaking longitudinal At breaking transverse	400 N/5cm 400 N/5cm
Elongation - UNI 8202/8 At breaking longitudinal At breaking transverse	35% 45%
Static puncturing resistance On concrete - UNI 8202/11 On expanded polysterene - UNI 8202/11	SP 4 SP 4
Dynamic puncturing resistance On concrete . UNI 8202/11 On expanded polysterene . UNI 8202/11	DP 4 DP 4
Joint pressure resistance in airs UNI 8202/31	$\geq 10\text{KPa}$

Code	Description	Unit of Sale	Quantity	Base Unit
MD325024	Torch Garden S, Plain (4mmx1Mx10M)	Roll	10	Sqm



EXPORT ORDERS: Product size and packaging may change slightly to accommodate export shipping requirements.
WARRANTY: We warrant our materials to be of good quality and will replace materials found defective, providing however, that the buyer shall examine the materials when received and promptly notify use of any defect before the materials are used or incorporated into a structure of which they are intended. Unless otherwise agreed to in writing, this warranty shall extend only to comply with specifications of materials manufactured and published by PLYDEX Company and made available to the buyer at request. We cannot warrant nor in any way guarantee particular methods, use or applications and performance, nor can we warrant that the materials will be suitable for any intended use. This warranty is in lieu of all others expressed or implied and may not be extended representatives, written sale information or drawings, nor do our distributors or salesmen or any representatives of distributors or of this company have any authority to extend any guarantee beyond that outlined above or to waive the limitations of the seller's liability.