PRODUCT TECHNICAL DATA SHEET

CE 1381-CPR-392

ITALIANA® MEMBRANE
MEMBER OF TECHNONICOL CORPORATION

SCUDOGARDEN PP -10°C

THE PRODUCT
SCUDOGARDEN PP is an plastomeric type membrane , obtained from distilled bitumen modified with plastomeric (APP) polymers plus a special anti-root additive (Preventol), which is root repellent.. **SCUDOGARDEN PP** is reinforced with spunbond non-woven polyester.
As opposed to traditional root resistant membranes, **SCUDOGARDEN PP** is special additive means that the membrane is root resistant throughout its whole length, breadth and thickness, instead of having a polyester film acting as a barrier where the roots can penetrate through the joints.

USES
SCUDOGARDEN PP membrane have been engineered specifically for the waterproofing of areas to be covered with earth where root penetration may be a problem, such as roof gardens, planters below grade, garages and tunnels etc. **SCUDOGARDEN PP** polyester reinforced membranes can be used in conjunction with a normal polyester reinforced membrane acting as a base sheet, and a single layer of **SCUDOGARDEN PP** is sufficient as a complete root growth inhibitor and penetration barrier

FINISHES
Upper surface
SCUDOGARDEN PP membranes are embossed with a pattern of small squares and are available with a fine grain quartz finish, to ensure that the roll unrolls correctly.
Lower surface
SCUDOGARDEN PP have a TORCHFLAM heat sensitive plastic film which prevents the rolls sticking together, to allow the gases to escape , besides giving a nice looking finish to the rolls .
The TORCHFLAM film acts as temperature indicator by stating , when melting , that the compound has reached the correct fusion temperature .

PACKAGING
The rolls are generally 1 m wide and 10 m long. The upper tape indicates the product brand name and the lower tape the weight or thickness of the product. The rolls are supplied on wooden pallets and are held in place by a protective heat shrunk polythene covering. Each pallet has two Quality Control Tickets which enable an easy identification of the product and the retrieval of its technical characteristics when needed .

TOOL REQUIREMENTS
For the correct installation of **SCUDOGARDEN PP** type membranes, it is only required a propane gas roofing torch with a gas bottle, reduction valve 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 membrane has to be installed must be smooth , clean , dry and treated, if required, with primer coating (for example if the material has to be fully bonded) , to enhance the adhesion of the membrane to the substrate . The membrane rolls will be unrolled and laid out on the dry primer coating , 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 TORCHFLAM melts and the bituminous compound starts melting . Side laps must be at least 100 mm and head laps 150 mm. After performing the overlap, the joint (while still hot) must be pressed , using a round nosed trowel , to ensure its good seal, and to level the molten bituminous compound that seeps from a correctly executed joint. The hot surface of the membrane should not be scraped using the trowel to avoid the exposure of the carrier.

SCUDOGARDEN PP				
Thickness mm	Lenght m	Width m	Rolls x plt	m^2 x plt
4	**10**	**1**	**23**	**230**

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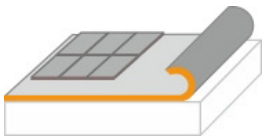
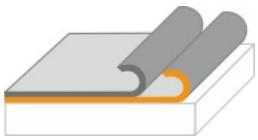
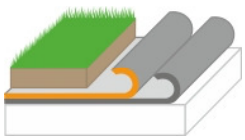
Characteristics	Norms	U.M.	Test risults SCUDOGARDEN PP	Tolerance
Norms	/	/	EN 13707 - EN 13969	/
Compound	/	/	BPP - Plastomeric bitumen	/
Carrier type	/	/	Polyester	/
Upper surfacing	/	/	Sand	/
Lower surfacing	/	/	Film PE	/
Type of application	/	/	SS-SP-SA-F	/
Method of application	/	/	Torch	/
Visible defects	EN 1850-1	-	Pass	/
Length	EN 1848-1	m	≥ (10 -1%)	/
Width	EN 1848-1	m	≥ (1 -1%)	/
Straightness	EN 1848-1	-	Pass	/
Thickness	EN 1849-1	mm	4	± 0,2 mm
Watertightness	EN 1928	-	Pass	/
Watertightness after artificial ageing	EN 1296 + EN 1928	-	Pass	/
External fire performance	EN 13501-5	-	F roof	/
Reaction to fire	EN 13501-1	-	EUROCLASS F	/
Shear resistance of joint - heat lap - side lap	EN 12317-1	N/50 mm	 750 500	- 20%
Tensile properties -maximum longitudinal tensile strength -maximum transversal tensile strength - longitudinal elongation - transversal elongation	EN 12311-1	 N/50 mm N/50 mm % %	 850 600 45 45	 - 20% - 20% - 15 pp - 15 pp
Resistance to impact	EN 12691	mm	1000	/
Resistance to static loading	EN 12730	kg	15	/
Resistance to tearing (nail shank) - longitudinal - transversal	EN 12310-1	N	 160 160	- 30 %
Resistance to root penetration	EN 13948	-	Pass	/
Dimensional stability	EN 1107-1	%	≤ 0,5	/
Flexibility at low temperature	EN 1109	°C	-10	/
Flow resistance at elevated temperature	EN 1110	°C	120	/
Artificial ageing by long term exposure to elevated temperature	EN 1296 + EN 1110	°C	110	- 10°C
Artificial ageing by long term exposure to the combination of UV radiation, elevated temperature and water	EN 1297	-	Pass	/
Water vapour transmission properties	/	-	μ = 20.000	/

REV-01/16

TYPE APPLICATION – CE MARK			
			
SP – Under heavy protection EN 13707	SS – Underlayer EN 13707	SA – Root resistant EN13707	F – Foundation EN 13969

TECHNONICOL ITALIA srl reserves the right to modify the technical data in this specification sheet, which is based on current production without prior warning.

All indications in this specification sheet are based upon our experience and current working practices.

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