



WATERPROOFING

APPLICATIONS

SWIMMING POOL

ARMONIA 3D

TECHNICAL DATA SHEET

APTDS-E-180-01

DESCRIPTION

Synthetic membrane for the internal covering of swimming pools, in plasticized PVC made by spreading, reinforced with polyester mesh, with nominal thickness of 1.5 mm (Mosaic and Spirit Ceram) and 1.8 mm (Sensitive). The superficial finishing of Sensitive membranes has anti slip. Produced according the European standard EN 15836-2 (2010).

Manufactured in a plant certified by UNI EN ISO 9001 (Quality management system) and UNI EN ISO 14001 (environmental management system). Setting performed by applicators approved by SOPREMA Srl. Finishing and accessories composed by elements produced and approved by SOPREMA Srl.

COLOURS

Mosaic: White and Pearl Grey
Spirit Ceram: Blue and Grey
Sensitive: Bali, Sand, White and Black

PRODUCT STANDARD

	ARMONIA 3D-MOSAIC 150	ARMONIA 3D- SPIRIT CERAM 150	ARMONIA 3D- SENSITIVE 180
Membrane thickness (mm)	1.5	1.5	1.8
Length of the roll (m)	25	25	25
Width of the roll (m)	1.65	1.65	1.65
Mass of the roll (kg)	74	74	87

STORAGE

Rolls should be stored horizontally in their original packages, in a dry and temperate area (10-30°C).

INSTALLATION

Loose-laid waterproofing system.
The overlaps are welded with hot air.
The membrane is applied in conjunction with accessories from ARMONIA 3D.

SPECIAL INDICATIONS

Hygiene, Health and Environment
The product does not contain any substance which is likely to be detrimental to your health or to the environment and complies with generally admitted Health and Safety Requirements.





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PROPERTIES

SPECIFICATIONS	ARMONIA 3D MOSAIC150	ARMONIA 3D SPIRIT CERAM 150	ARMONIA 3D SENSITIVE 180	TEST METHOD
Thickness (mm)	1.5	1.5	1.8	EN 1849-2
Width (m)	1.65	1.65	1.65	EN 1848-2
Length	≥ nominal value	≥ nominal value	≥ nominal value	EN 1848-2
Flatness (mm)	≤ 10	≤ 10	≤ 10	EN 1848-2
Straightness (mm)	≤ 30	≤ 30	≤ 30	EN 1848-2
Air mass (kg/m ²)	1.80	1.80	1.80	EN 1849-2
Water absorption (168 hours at 23 ± 2°C) (%)	≤ 1.0	≤ 1.0	≤ 1.0	EN ISO 62 met. 1
CaCO ₃ content (%)	≤ 3.0	≤ 3.0	≤ 3.0	EN 15836 - 2 ann. A
Tensile strength (N/50 mm)	≥ 1100	≥ 1100	≥ 1100	EN 12311-2 met A
Elongation at maximum tensile force (%)	≥ 15 e ≤ 30	≥ 15 e ≤ 30	≥ 15 e ≤ 30	EN 12311-2 met A
Tear resistance (N)	≥ 180	≥ 180	≥ 180	EN 12310-2
Dimensional stability (%)	0.5	0.5	0.5	EN 1107-2
Cold bending (°C)	≤ -25	≤ -25	≤ -25	EN 495-5
Joint properties: peel resistance (N/50mm)	≥ 80	≥ 80	≥ 80	EN 12316-2
Watertightness	conform	conform	conform	EN 1928 met B
Resistance to artificial aging: - exposure of 648 MJ/ m ² to UV between 300 and 400 nm - contrast level according to greys scale	≥ 3000 hour ≥ degree 3	≥ 3000 hour ≥ degree 3	≥ 3000 hour ≥ degree 3	EN ISO 4892-2 met. A - cycle n°1 EN 20105 - A02
Resistance to micro organisms: - mass loss (%)	≤ 5	≤ 1	≤ 1	EN ISO 846 met. D
Resistance to streptovercillum reticulum bacteria	Absence of stains	Absence of stains	Absence of stains	EN ISO 846 met. C Strain: ATCC 25607
Resistance to chlorine - colour changing according to greys scale	≥ degree 3	≥ degree 3	≥ degree 3	EN 15836 - 2 annex C
Resistance to staining agents - colour changing according to greys scale	≥ degree 2	≥ degree 4	≥ degree 4	EN 15836 - 2 annex D
Resistance to staining agents after abrasion: - colour changing according to greys scale	--	≥ degree 4	≥ degree 4	EN 15836-par. 6.3.1 EN 15836 - 2 ann. D

Note: ARMONIA 3D-SENSITIVE 180 has an increased slip resistance.



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NOTE : SOPREMA may modify the composition and/or utilization of its products without prior notice.

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