



WATERPROOFING

APPLICATIONS

SWIMMING POOL

FLAGPOOL NG

TECHNICAL DATA SHEET

APTDS-E-179-01

DESCRIPTION

FLAPOOL NEW GENERATION (NG) liner is a special synthetic PVC membrane, presented in a new design, for the internal covering of swimming pools. Its formulation and its production process have been specifically conceived to comply with the strict performance parameters dictated by the European standard EN 15836-2 in 2010.

FLAGPOOL NG is manufactured in three different versions

- FLAGPOOL NG : coloured version with standard finishing;
- FLAGPOOL NG GLOSSY UNICOLOR : Coloured version with special finishing varnishing;
- FLAGPOOL NG GLOSSY PRINTED : Printed version with special finishing varnishing;

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.

APPLICATIONS

- On new or existing swimming pool
- On any kind of support concrete, cement, walls, steel prefab panels

COMPOSITION

Synthetic liner in plasticised PVC, made by spreading. Composed by plastisol, characterised by special chemical-physical properties and with polyester mesh reinforcement.

COLOURS

- Plain colours : sky blue, light blue, sand, dark blue, pearl grey, dark grey, anthracite black, caribbean green, white, aqua, red, wild musk, pink and basalt grey;
- Mosaic printed: blue mosaic, green mosaic, black mosaic, grey mosaic, marbella mosaic, gold mosaic, marbella gold and alhambra.
- Printed marble: pearl black, white Florence and sky blue.
- Other printed: stones, bali's stone and bali sand.

FLAGPOOL is available in other colours according to RAL scale. The superficial finishing of the liner is available as smooth or anti slip. The anti slip membrane, "FLAGPOOL anti slip" has the same physical mechanical features as FLAGPOOL.





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MAIN FEATURES

- High resistance to atmosphere agents and UV rays
- High resistance to micro-organisms – Bio-Shield
- Very high mechanical resistance
- Insensible to hot-cold cycles
- Punching resistance
- Excellent welding power
- Resistant against normal products employed for swimming pool water treatment

for more information please refer to "Flagpool's Water maintenance handbook".

SETTING

The welding spots of FLAGPOOL NG liner must be performed with hot air Leister gun. For a correct welding, the edge of the liner must be clean and dry. The complete instructions of the setting methods and the structural details are described into the related Flagpool's document, "Setting up".

CLEANING

Do not use aggressive products to clean FLAGPOOL NG, they may damage the liner and remove the surface decorations. It is advisable to use a soapy water solution and avoid using abrasive products. See the Flagpool's Water maintenance handbook for more and complete information about cleaning.

SHELF LIFE:

The swimming pool's liner FLAGPOOL NG is delivered in rolls, laid on wood pallets, protected and separated by polystyrene shapes and externally wrapped with polyethylene sheets. Store the material in a dry place, the rolls must be protected from humidity and atmospheric agents.

PRODUCTION STANDARD

Thickness	1.50 mm
Width	1.60 / 1.65 m
Length	25 m





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PROPERTIES

SPECIFICATIONS	FLAGPOOL NG	FLAGPOOL NG Glossy unicolor	FLAGPOOL NG Glossy printed	TEST METHOD
Thickness (mm)	1.50	1.50	1.50	EN 1849-2
Width (mm)	1.65	1.65	1.60 / 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/5cm)	≥ 1100	≥ 1100	≥ 1100	EN 12311-2 met. A
Mesh elongation to rupture (%)	≥ 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
Resistance to welding peeling (N/5cm)	≥ 80	≥ 80	≥ 80	EN 12316-2
Slipping resistance (°)	≥ 24 (*)	--	--	EN 15836-2 all. B EN 13451-1
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	≥ 6000 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 (%)	≤ 5.0	≤ 1.0	≤ 1.0	EN ISO 846 met. D
Resistance to streptovorticilium 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	EN 15836-par. 6.3.1 EN 15836 - 2 ann. D

(All values are nominal),
*on anti slip Flagpool



ASIA PACIFIC - Singapore +65 68186353 info@soprema.com.sg · Shanghai +86 21 6252 1882 info@soprema.com.cn

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

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