

## DESCRIPTION

FLAPOOL NEW GENERATION (NG11) 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 NG11 is manufactured in three different versions

- FLAGPOOL NG11: coloured version with standard finishing;
- FLAGPOOL NG11 GLOSSY UNICOLOR: Coloured version with special finishing varnishing;
- FLAGPOOL NG11 GLOSSY PRINTED: Printed version with special finishing varnishing;

## APPLICATIONS

- On new or existing swimming pools
- 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.

## PRODUCTION STANDARD

Thickness	1,50 mm
Width	1,60 m
Length	25 m

## SHELF LIFE:

The swimming pool's liner FLAGPOOL NG 11 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 by humidity and atmospheric agents.

## 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 pools' water treatment (for more information please refer to Flagpool's "Water maintenance handbook".

## SETTING

The welding spots of FLAGPOOL NG11 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 NG11, 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 "Water maintenance handbook" Flagpool for more and complete information about cleaning.

## COLOURS

- Plain colours Light blue, light sky blue, sand, dark blue, pearl grey, dark grey, anthracite black, Caribbean green, white, aqua, red and yellow;
- Special finishing: Pink marmorino and wild musk;
- Mosaic printed: Blue mosaic, green mosaic, marbella blue, gold mosaic and marbella gold.
- Printed: Pearl black, white Florence, sky blue, stones and decorative border.

FLAGPOOL is available in other colours according to RAL scale.

The superficial finishing of the liner is available as smooth or slip prevention. The slip prevention membrane, "FLAGPOOL slip prevention" has the same physical mechanical features as FLAGPOOL.

## Bio-Shield treatment against micro organisms

SPECIFICATIONS	FLAGPOOL NG 11	FLAGPOOL NG 11 Glossy unicolor	FLAGPOOL NG 11 Glossy printed	Test method
Thickness (mm)	1,50	1,50	1,50	UNI EN 1849-2
Width (mm)	1,60	1,60	1,60	UNI EN 1848-2
Length	≥ nominal value	≥ nominal value	≥ nominal value	UNI EN 1848-2
Flatness (mm)	≤ 10	≤ 10	≤ 10	UNI EN 1848-2
Straightness (mm)	≤ 30	≤ 30	≤ 30	UNI EN 1848-2
Air mass (kg/m <sup>2</sup> )	1,80	1,80	1,80	UNI EN 1849-2
Water absorption (168 hours at 23 ± 2°C) (%)	≤ 1,0	≤ 1,0	≤ 1,0	EN ISO 62 met. 1
CaCO <sub>3</sub> content (%)	≤ 3,0	≤ 3,0	≤ 3,0	EN 15836 - 2 ann. A
Resistance to traction (N/5cm)	≥ 1100	≥ 1100	≥ 1100	UNI EN 12311-2 met. A
Mesh elongation to rupture (%)	≥ 15 e ≤ 30	≥ 15 e ≤ 30	≥ 15 e ≤ 30	UNI EN 12311-2 met. A
Tear resistance (N)	≥ 180	≥ 180	≥ 180	UNI EN 12310-2
Dimension stability (%)	≤ 0,5	≤ 0,5	≤ 0,5	UNI EN 1107-2
Cold bending (°C)	≤ -25	≤ -25	≤ -25	UNI EN 495-5
Resistance to welding peeling (N/5cm)	≥ 80	≥ 80	≥ 80	UNI EN 12316-2
Slipping resistance (*)	≥ 24 (*)	--	--	EN 15836-2 all. B UNI EN 13451-1
Resistance to artificial aging: - exposure of 648 MJ/ m <sup>2</sup> to UV between 300 and 400 nm - contrast level according to greys scale	≥ 3000 hour ≥ degree 3	≥ 6000 hours ≥ degree 3	≥ 3000 hours ≥ 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 streptovorticium 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

\*on slip prevention Flagpool



Manufactured in UNI EN ISO 9001 and UNI EN ISO 14001 certified plant

