

# FLAGON A 1,5 mm, 1,8 mm et 2,0 mm

PVC-P MEMBRANE RESISTANT TO HYDROCARBONS

## USE - APPLICATION

FLAGON A is a thermoplastic membrane made of PVC-P that contains special plasticised, specifically designed for the waterproofing of hydraulic structures covered in contact with fluids with traces of hydrocarbons or oils.

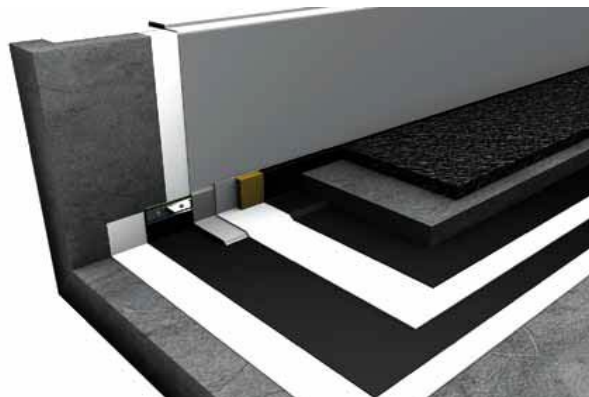
FLAGON A can also be used under trafficable rigid ballast.

To verify the compatibility with the specific chemical liquids, please contact the technical office CIVILROCK (tech-office@flag.it).

In case of trafficable pavement, this membrane is ideal for the realization of waterproofing systems of parking for light vehicles.

FLAGON A allows a fast installation immediately after the casting of the support structure. FLAGON A is suitable for structural movement.

FLAGON A is compatible with all accessories and membranes in the FLAGON PVC range.



## DESCRIPTION

FLAGON A membrane is a synthetic multi-ply membrane in PVC-P made by co-extrusion using plasticised polymers with high resistance to the aggression of the hydrocarbons.

FLAGON A is black in colour.

FLAGON A is not UV resistant, so you need protection for exposed.

It's also available FLAGON A/300 and FLAGON A/500, having a non-woven geotextile respectively 300 gr/m<sup>2</sup> and 500 gr/m<sup>2</sup> coupled on the lower face of the membrane.

CIVILROCK attaches the highest importance to the quality of its products. This is why we operate a quality assurance system according to ISO 9001 BSI certified.

## MAIN ADVANTAGES

- Good resistance against the temporary contact with oils and hydrocarbon
- Allows a fast installation after the casting of concrete of the support
- High elongation at break
- High mechanical resistance

## SUGGESTED INSTALLATION EQUIPMENT

- Manual welding with hot air
- Automatic welding machine with hot air
- Automatic welding machine with double track

*CIVILROCK reserves the right, as technology and know-how progress, to modify without warning the composition and conditions of use of its materials, and subsequently their price. As a result, orders shall only be accepted on the basis of the terms and technical specifications applicable at the time of receipt.*



**FLAG S.p.A. – SOPREMA GROUP**

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## CHARACTERISTICS

ESSENTIAL CHARACTERISTIC	Standard	A 1,5 mm	A 1,8 mm	A 2,0 mm	
Tensile strength (N/mm <sup>2</sup> )	EN 12311-2		≥ 17,5		EN 13967
Elongation at break (%)	EN 12311-2		≥ 300		
Resistance to impact (mm)	EN 12691	≥ 800	≥ 900	≥ 1 250	
Resistance to static loading (kg)	EN 12730		≥ 20		
Reaction to fire	EN 13501-1		E		
Tear resistance (N)	EN 12310-1	≥ 375	≥ 450	≥ 500	
Water permeability after 6 h at 0,5 Mpa	EN 1928 (B)		Watertight		
Joint strength (N/50mm)	EN 12317-2	> 915	> 1 100	> 1 200	
Durability: After thermal ageing After immersion in chemicals	EN 1296 EN 1847	Watertight at 2kPa and 60 kPa Watertight at 2kPa and 60 kPa			
Tensile strength (N/mm <sup>2</sup> )	EN ISO 527-3		≥ 17,5		
Static puncture resistance (kN)	EN ISO 12236	> 1,80	> 2,16	> 2,45	EN 13361 and EN 13362
Water permeability	EN 14150		< 10 <sup>-4</sup> m <sup>3</sup> m <sup>-2</sup> d <sup>-1</sup>		
Durability: - Oxidation, variation in tensile properties (%) - Environmental stress cracking - Weathering, variation in tensile properties after 10500 h (%)	EN 14575 ASTM D 5397 EN 12224		≤ 25 not applicable ≤ 25		

ADDITIONAL CHARACTERISTIC	Standard	A 1,5 mm	A 1,8 mm	A 2,0 mm
Thickness (mm)	EN 1849-2	1.5 (±5%)	1.8 (±5%)	2.0 (±5%)
Mass per unit area (kg/m <sup>2</sup> )	EN 1849-2	1.80	2.15	2.40
Cold bending (°C)	EN 495-5		≤ -25	
Resistance to perforation by roots	EN 13948		No perforation	
Dimensional stability (6h a 80°C) (%)	EN 1107-2		≤ ±2,0	
Durability Exposure to UV radiation, elevated temperature and water	EN 1297		No UV resistant	

## PRODUCTION STANDARD

	1.5 mm	1.8 mm	2.0 mm
Thickness	1.5 mm	1.8 mm	2.0 mm
Number of rolls on each pallet	23	18	18
Roll length / width	25 ml x 2.10 ml	20 ml x 2.10 ml (other lengths available on request)	
Colour	Black		

## CE MARKING

Unique identification code of the product-type: WPSIT0006.

FLAGON A membranes are produced by the FLAG Spa factory (SOPREMA group) in Chignolo d'Isola (Italy) and are CE marked no. 1085-CPR-0010 in accordance with EN 13956 :2012 and no.1085-CPR-0036 in accordance with EN 13967:2012 and no. 1085-CPR-0007 in accordance with EN 13361:2013 and EN 13362:2013.

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