

CPS HEAT SEAL

APP MODIFIED ELASTO-PLASTIC WP MEMBRANE WITH NON-WOVEN POLYESTER REINFORCEMENT

DESCRIPTION

APP Modified Bituminous Membrane -Polyester is a high-performance water proofing membrane made of distilled bitumen modified with elasto-plastic polymers and Atactic Polypropylene (APP) providing the membrane excellent aging performance, having a 120/140/160GSM non-woven polyester in layer, which provide the membrane with high mechanical characteristics as well as giving excellent dimensional stability.

METHODS OF APPLICATION

For the application of the membrane the use of heat is generally used by means of gas torch or specific hot air machine.

- Co-ordinate the operations in a way to not cause damage to the construction elements and underground structure. Avoid leaving the structure for the night or for periods of prolonged work interruptions without having been properly sealed.
- The application surface must not have depressions, to avoid the ponding of rain water and must have a sufficient slope to guarantee a regular rain runoff. Normally this is obtained with a slope of 1.5%.
- The water drainage spouts should be sufficiently big enough to allow for rain water to be eliminated in an efficient way
- Prepare cementations substrate, including verticals and details, with Watertite Primekote @300 gm/m² and allow it to dry for 12 - 24 hrs. for hard dry.
- The membrane must be unrolled and placed in aligned position, laying at lowest point of the slope of the roof and progress towards the higher point of the roof.
- Each roll should overlap the next by 50-75 mm on the side laps and 75-100 mm at the end laps for below ground application and 50 mm & 75 mm overlaps for above ground application respectively.
- The membrane must be applied to the substrate fully bonded. In any case, when in the proximity of the head laps, the membrane must be applied for at least 100mm, furthermore all details, perimeters, verticals, change of slope as well as projecting area must be fully bonded.

USES

Watertite APP-PY can be applied in single layer roofing system as well as for water barrier and ideal for waterproofing of roofs, reservoirs, basements, terrace garden, car parking, tunnels and bridge decks.

HEALTH & ENVIRONMENT

The membrane does not contain any substance which is likely to be detrimental to health or to environment and complies with generally admitted health and safety requirements

Note:

The technical data given is based on average values obtained during production. Concrete penetron system. Reserves the rights to change or modify the nominal values without prior notice or advice.

TECHNICAL DATA

SL.	PARAMETERS	UNIT	RESULT	RESULT	TEST METHOD
1.	Roll Length	m	15.00	10.00	ASTM D5147
2.	Roll Width	m	1.00	1.00	ASTM D5147
3.	Roll Thickness	mm	2.00	3.00 / 4.00	ASTM D5147
4.	Appearance	Black Membrane, Upper side HDPE film, Underside HDPE film			
5.	Softening Point	°C	≥150	≥150	ASTM D 36
6.	Heat Resistance, 120°C, 2hr	°C	No Flow	No Flow	ASTM D5147
7.	Penetration @ 25 °C	dmm	25 ±5	25 ±5	ASTM D 5
8.	Tensile Strength				ASTM D5147
	Longitudinal	N/5cm	450 ±50	600 ±50	
	Transverse	N/5cm	350 ±50	450 ±50	
9.	Elongation at Break				ASTM D5147
	Longitudinal	In %	45 ±10	55 ±10	
	Transverse	In %	60 ±10	65±10	
10.	Tear Resistance				ASTM D4073
	Longitudinal	N	350 ±50	400 ±50	
	Transverse	N	300 ±50	350 ±50	
11.	Lap Joint Strength				ASTM D5147
	Longitudinal	N/5cm	400 ±50	500 ±50	
	Transverse	N/5cm	300 ±50	400 ±50	
12.	Cold Flexibility	0°C (±2)/2h	No Crack	No Crack	ASTM D5147
13.	Water Absorption	%	≤ 0.1	≤ 0.1	ASTM D5147
14.	Puncture Resistance				UEAtc 5.1.9
	Static Indentation		L – 3	L – 3	
	Dynamic Indentation		I – 3	I – 3	

UNIQUE FEATURES

- Easy to apply (by propane torch).
- High tensile strength and tear resistant.
- High dimensional stability.
- Absolute impermeability to water.
- Excellent resistance to ageing and weathering.
- Excellent high temperature performance.
- Highly resistant to impact, puncture and substrate movement.
- Excellent adhesion and seam integrity on any surface.
- Excellent cold flexibility.
- Environment friendly.

PACKAGING

Available in (1m x 15m) in 2mm thickness and (1m x 10m) in 3mm & 4mm thickness (Tolerance: $\pm 1\%$).

STORAGE

WaterTite APP-PY should be kept vertically in an upright position under covered shed subject not to direct sunlight.



Note:

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields. Information on this data sheet is subject to change without notice and should not be used for writing specification. For additional information on specific applications, please contact Concrete Penetron System. The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of willful misconduct or gross negligence on our part. This technical data sheet super sedes all previous editions relevant to this product. cps reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



Concrete Penetron System

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