

APCON SHIELDTM



Waterproofing Membrane - APP

An ISO 9001:2015 Certified Company

DESCRIPTION

APCON SHIELD Attactic polypropylene modified bitumen waterproofing membranes have been developed using the most up-to-date technology, to provide the highest performance at the lowest cost.

APCON SHIELD APP Torch Applied Membranes are manufactured with non-woven Polyester mat. The reinforcement are impregnated and then coated with a polymer modified bituminous compound. This mixture gives, the membrane, properties of high softening point while making it resistant to atmospheric agents and ageing. The APP modified Bitumen compound allows the membrane to withstand high temperatures, ensures shape stability, increases adhesion strength and ease in application.

SPECIAL FEATURES :

- ✳ Positive barrier to water & vapour.
- ✳ Excellent resistance to atmospheric pressure.
- ✳ High flexibility at low temperature.
- ✳ Resistant to water-borne chemical attack.
- ✳ High performance, withstands thermal shocks and ideal for use as an exposed system.

SURFACE FINISHING :

APCON SHIELD APP membranes are manufactured and supplied in rolls of 1 x 10 metres. The upper and lower surfaces are covered with thin Polyethylene film on both sides or with slated finishes.

The slate can be natural Grey, White, Black or Green or any other colour depending on stock availability.

TYPICAL USES :

APCON SHIELD APP may be used for the waterproofing of roof decks, slabs, basements, foundations, tanking work, waste-water canal lining, sewerage tank lining etc.

APPLICATION :

The application of **APCON SHIELD APP** is both easy and quick. Where it is to be laid directly in a one-layer system on concrete, tiles or an existing roofing system, a coat of **APCON SHIELD** Bituminous primer at the rate of 200-300 grms/m² should first be applied. Allow this coating to dry thoroughly. In areas of high humidity we recommend it should be left overnight.

As in all other applications, the membrane should first be unrolled and positioned correctly on the surface to be treated. Each roll should overlap the adjacent roll by 10 cms. Once the roll has been positioned correctly, the membrane should be rolled up again, taking care not to change its orientation. Using left to right movements, heat the lower surface of the membrane with a propane gas torch. This will cause slight surface melting and adhesion to the substrate. Continue the above method for consecutive rolls remembering overlaps must be 10 cms and endlaps 15 cms.

Inspection of Lap Joints must be carried out to ensure total adhesion.

TECHNICAL DATA

<i>Product Name</i>	<i>Apcon Shield P 160</i>	<i>Apcon Shield P 180</i>	<i>Apcon Shield P 160 with mineral</i>	<i>Apcon Shield FG 050</i>	<i>Test Method</i>
<i>Roll Size, mtrs</i>	<i>10 x 1</i>	<i>10 x 1</i>	<i>10 x 1</i>	<i>10 x 1</i>	<i>ASTM D 146</i>
<i>Thickness, mm</i>	<i>3 & 4</i>	<i>3 & 4</i>	<i>3 & 4</i>	<i>3 & 4</i>	<i>ASTM D 146</i>
<i>Weight, kg/m²</i>	<i>3 & 4</i>	<i>3 & 4</i>	<i>3.5 & 4.5</i>	<i>3 & 4</i>	<i>ASTM D 146</i>
<i>Carrier weight</i>	<i>160 g/m² Polyester</i>	<i>180 g/m² Polyester</i>	<i>160 g/m² Polyester</i>	<i>50 g/m² Fiber Glass</i>	
<i>Coating Asphalt Softening Point [R&B]^oC</i>	<i>APP modified 150</i>	<i>APP modified 150</i>	<i>APP modified 150</i>	<i>APP modified 150</i>	<i>ASTM D 36</i>
<i>Penetration at 25^oC dmm</i>	<i>15-25</i>	<i>15-25</i>	<i>15-25</i>	<i>15-25</i>	<i>ASTM D 5</i>
<i>Tensile strength [L/T] N/5cm</i>	<i>700/550</i>	<i>800/660</i>	<i>700/550</i>	<i>350/330</i>	<i>ASTM D 882</i>
<i>Elongation at break [L/T]%</i>	<i>40/50</i>	<i>40/50</i>	<i>40/50</i>	<i>2/3</i>	<i>ASTM D 882</i>
<i>Cold Flexibility ^oC</i>	<i>0 to -5</i>	<i>0 to -5</i>	<i>0 to -5</i>	<i>0 to -5</i>	<i>ASTM D 4586</i>
<i>Lap joint strength [L/T] N/5cm</i>	<i>>700/550</i>	<i>>800/660</i>	<i>>700/550</i>	<i>>350/330</i>	<i>ASTM D 882</i>
<i>Tear Resistance [L/T] N</i>	<i>150/170</i>	<i>180/200</i>	<i>150/170</i>	<i>60/80</i>	<i>ASTM D 4073</i>
<i>Resistance to water pressure</i>	<i>No Leakage</i>	<i>No Leakage</i>	<i>No Leakage</i>	<i>No Leakage</i>	<i>ASTM D 53</i>
<i>Water Absorption [%]</i>	<i>< 0.15</i>	<i>< 0.15</i>	<i>< 0.15</i>	<i>< 0.15</i>	<i>ASTM D 5147</i>
<i>Heat Resistance at 125^oC</i>	<i>No Flow</i>	<i>No Flow</i>	<i>No Flow</i>	<i>No Flow</i>	<i>ASTM D 4586</i>
<i>Resistance to ageing After 2000 hrs.</i>	<i>No deterioration</i>	<i>No deterioration</i>	<i>No deterioration</i>	<i>No deterioration</i>	<i>ASTM D 4799</i>

Total Solutions For Waterproofing With Bituminous Membranes

This data is subject to change / modify time to time due to continuous improvement of the products. Test results are given as per the tests conducted in the lab. The test results may vary due to climatic conditions.

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