

**Product Data Sheet**  
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Sika® WP Shield-103 PM

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### APP modified bituminous membranes - mineral finish

<b>Product Description</b>	APP modified Bituminous Polyester reinforced waterproofing membrane manufactured from a rich mixture of bitumen and selected polymers blended together to obtain excellent heat resistant , flexibility , UV resistance . Modified bitumen then coated onto a dimensionally stable carrier to obtain excellent tensile strength, tear and puncture resistance. A natural layer of mineral is added as a top layer.	
<b>Uses</b>	■ It is used as waterproofing /dam proofing membrane for protection of various substrates in wide range of applications.	
<b>Tests</b>		
<b>Approval / Standards</b>	Conforms to : UEAtc,ASTM D146, DIN52123, ASTM D5, UEAtc, ASTM D 5147, ASTM D4799.	
<b>Product Data</b>		
<b>Form</b>		
<b>Appearance / Colours</b>	Black membrane	
<b>Packaging</b>	1.0 x 10 m roll	
<b>Storage</b>		
<b>Storage Conditions / Shelf-Life</b>	Rolls must be stored in their original package, in horizontal position and under cool and dry conditions. They must be protected from direct sunlight, rain, snow and ice, etc. Should be stored vertically in clean covered one. Rolls should be etched.	
<b>Technical Data</b>		
<b>Chemical Base</b>	APP modified Bituminous Polyester	
<b>Thickness</b>	3mm	
<b>Unit weight</b>	~3.3 kg/m <sup>2</sup>	(According to UEAtc)
<b>Mechanical / Physical Properties</b>		
<b>Tensile Strength (L/T)N/SCM</b>	650/500	(According to UEAtc,ASTM D146)
<b>Elongation at break (L/T)</b>	40/45	(According to UEAtc,ASTM D146)
<b>Resistance to water pressure</b>	No leakage	(According to DIN52123)



Construction

<b>Carrier (Polyster) weight</b>	160 g/m <sup>2</sup>	
<b>Softening Point</b>	145 °C	
<b>Penetration</b>	15-25 at 25°C d mm	(According to ASTM D5)
<b>Tear resistance (L/T)N</b>	150/170	(According to UEAtc)
<b>Water Absorption% (BSP)</b>	<0.15	(According to ASTM D 5147)
<b>Heat Resistance</b>	No Flow at 100°C	
<b>Resistance to Aging after 2000hrs (Weather –O- Meter)</b>	No Delamination	(According to ASTM D4799)

## System Information

### Application Details

<b>Substrate Quality</b>	Concrete, mortar surfaces must be clean, free from grease, oil, and loosely adhering particles. Steel and iron surfaces must be free from scale, rust, grease and oil. All surfaces must be as true as possible.
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### Application Conditions / Limitations

<b>Substrate Temperature</b>	+10°C min. / +40°C max.
<b>Ambient Temperature</b>	+10°C min. / +40°C max.

### Application Instructions

<b>Application Method / Tools</b>	<p>Application procedure may vary slightly depending upon site conditions. However given below are general guidelines.</p> <p>Apply bituminous primer to a clean, smooth and dry surface by brush, roller or spray. Unroll and align and re roll correctly before torching. Overlaps should be minimum 100mm. Use gas burner to heat the substrate and thermo fusible film on the underside on lower face of membrane. When the thermo- fusible film melts after torching, the membrane is ready to stick. Roll forward and press firmly against the substrate to bond. Heat both the overlaps and use the round tipped trowel heating the same to smoothen and press into seam.</p> <p>All angles and abutments should be sealed with extra care to ensure full bondage. The edges should be sealed well into the grooves.</p>
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### Value Base

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.

### Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika 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.



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