Construction

Sika® WP Shield-103 P

APP modified bituminous membranes

Product Description	This type of membrane is manufactured by modifying premium grade asphalts with atactic poly propylene and specially reinforced with non- woven polyester. This type of membrane show excellent strength, elasticity and durability.
Uses	It is used as waterproofing /dam proofing membrane for protection of various substrates in wide range of applications. ■ Medium to large roof slabs (domestic, commercial and industrial) ■ Basements and raft slabs ■ Underground car parks etc. ■ Bridges & Underpass

Tests

Approval / Standards	Conforms to : EN 12311-1, ASTMD 5147, ASTM D6, ASTM D5, EN 1928-1, EN 1849-1

Product Data

Form

Appearance / Colours	Black membrane, Upper finish: PE Film, Underside finish: PE Film
Packaging	1 x 10 m roll

Storage

Storage Conditions / Shelf-Life	Rolls must be stored in their original package, in vertical position and under cool and dry conditions. They must be protected from direct sunlight, rain, snow and ice, etc. The shelf life is 12 months if stored as per recommendations

Technical Data

Chemical Base	APP modified bituminous membrane	
Thickness, mm	3 (-0.2)/(+0.3)	(According to EN 1849-1)

Mechanical / Physical Properties

Tensile Strength (L) N/5cm	600 ± 150	(According to EN 12311-1)
Tensile Strength (T) N/5cm	450 ± 150	(According to EN 12311-1)
Elongation at break (L) %	40± 10	(According to EN 12311-1)

Elongation at break (T) %	40± 10	(According to EN 12311-1)
Tear Strength (L), N	300	(According to ASTMD 5147)
Tear Strength (T), N	200	(According to ASTMD 5147)
Softening Point ,°C	>145	(According to ASTM D6)
Cold Flexibility, °C	-2	(According to EN 1109)
Penetration, @25°C d mm	15-25	(According to ASTM D5)
Water Tightness, kPa	10	(According to EN 1928-1)

System Information

Application Details

Substrate Quality	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.

Application Conditions / Limitations

Substrate Temperature	+10°C min. / +60°C max.
Ambient Temperature	+10°C min. / +50°C max.

Application Instructions

Application Method / Tools	Application procedure may vary slightly depending upon site conditions. However given below are general guidelines. 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. All angles and abutments should be sealed with extra care to ensure full bondage. The edges should be sealed well into the grooves.

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.

Construction

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Tests

Approval / Standards	Conforms to : EN 12311-1, ASTMD 5147, ASTM D6, ASTM D5, EN 1928-1, EN 1849-1

Product Data

Form

Appearance / Colours	Black membrane, Upper finish: PE Film, Underside finish: PE Film
Packaging	1.0 x 10 m roll

Storage

Storage Conditions / Shelf-Life	Rolls must be stored in their original package, in vertical position and under cool and dry conditions. They must be protected from direct sunlight, rain, snow and ice, etc. The shelf life is 12 months if stored as per recommendations

Technical Data

Chemical Base	APP modified bituminous membrane	
Thickness, mm	4 (-0.2)/(+0.3)	(According to EN 1849-1)

Mechanical / Physical Properties

Tensile Strength (L) N/5cm	600 ± 150	(According to EN 12311-1)
Tensile Strength (T) N/5cm	450 ± 150	(According to EN 12311-1)

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