

SikaBit® PRO P40-3 MG GF

Bitumenous Waterproofing Membrane Non woven Polyester Reinforcement

Product Description	Bitumenous Waterproofing Membrane made of a special grade of modified plastomeric bitumen modified with APP and APAO reinforced with composite polyester (polymers and Non-woven Polyester acts as internal reinforcement providing high mechanical properties).	
Uses	<ul style="list-style-type: none"> ■ Roofing and re-roofing works for sloped and flat protected roofs (available also with mineral slated finish for exposed (un protected) roofs that is subjected to low traffic conditions. ■ Applications subject to moderate mechanical stress. ■ Waterproofing for wet areas, mechanical rooms and terraces. ■ Waterproofing of underground structures, retaining walls and under raft foundation. 	
Characteristics / Advantages	<ul style="list-style-type: none"> ■ Reinforcement provides the membrane with dimensional stability and moderate mechanical properties. ■ Compatible with all types of bitumenous waterproofing systems. ■ Improved chemical resistance to acidic and alkaline solutions. ■ Flexible at low temperature up to- 5. ■ Polyester reinforcement provides the membrane with tensile strength, tear resistance and elongation. ■ Environmentally friend. ■ Enhanced thermal resistance under a wide range of temperature fluctuation. 	
Approval / Standards	Conforms to ASTM D 5 – D36 – D 5147 – D 6222/2000 EOS.	
Product Data		
Appearance / Colours	Rolled sheet membrane, reinforced. Surface: smooth Membrane thickness: 4.00 mm Colour: Black Upper surface: covered with Polyolefin film. Lower surface: laminated with Polyolefin film.	
Packaging	Roll size: 1.0 m (roll width) x 10.00 m (roll length).	
Storage Conditions / Shelf-Life	Rolls should be stored in an upright position in a flat properly ventilated and protected against direct sunlight, rainwater, snow and ice etc. 24 months from the production date	
Technical Data		
Softening Point (R&B)	≥150°C	(according to ASTM D-36)
Penetration at 25°C	15-25 dmm.	(according to ASTM D-5)
Penetration at 60°C	60-80 dmm.	(according to ASTM D-5)
Thickness & Weight	4.00 mm	(according to EN- 1848))



Mechanical / Physical Properties

Tensile Strength

Longitudinal	750 N/ 5 cm	(according to EN 12311-1)
Transverse	600 N/ 5 cm	(according to EN 12311-1)

Elongation at Break

Longitudinal	≥40%	(according to EN 12311-1)
Transverse	≥42%	(according to EN 12311-1)

Tearing Resistance

(nail-shank)		
Longitudinal	150 N	(according to EN-12310-1)
Transverse	200 N	(according to EN-12310-1)

Tensile- Tear Resistance

Longitudinal	550 N	(according to ASTM D-5147)
Transverse	450 N	(according to ASTM D-5147)

Dimensional Stability

Longitudinal	±0.2 %	(according to EN 1107-1)
Transverse	±0.1 %	(according to EN 1107-1)

Static Puncturing	L4	(according to EN 12730: 2001)
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Dynamic Puncturing	14	(according to EN 12691)
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Cold Temperature Flexibility	0 to -5°C	(according to EN 1109)
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Heat resistance	120°C	(according to EN 1110)
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Water Impermeability at 100 KPa	Absolute	(according to EN-1928:2000)
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Water Absorption	Less than 0.15%	(according to ASTM D-5147)
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Vapor Impermeability	80'000 μ	(according to EN 1931)
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Joint Tensile Strength

Longitudinal	650 N/5 cm	(according to EN 12371/1)
Transverse	500 N/5 cm	(according to EN 12371/1)

Adhesion to concrete (Torch adhered)	40 N/ cm ²	(according to EN-13596)
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Thermal Conductivity	0.12 Kcal/mh°C	(according to ASTM C-177)
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Dielectric Constant (K)	2.5	(according to ASTM D-150)
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Dielectric Rigidity	14 Kv/mm	
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Ageing Due to UV Radiation	Pass	(according to EN- 1296)
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Resistance to Thermal Ageing	No signs of deterioration after test	(according to EN- 1296)
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System Information

Application Details

Substrate Quality	In-situ concrete: Clean, sound, smooth and dry, homogeneous, free from oils and grease, dust and loose or variable particles.
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Application Instructions

Application Method / Tools	The application of BituSeal-P4 by using a propane torch or by mechanical fastening. The application of the membranes can be applied to the substrate fully bonded, semi bonded or loose laid in accordance with the waterproofing system for membrane installations. According to the surface conditions, a primer coat of Sika Bitumen-W maybe required. Side laps should be from 8 –10 cm while end laps should be from 12–15 cm.
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Local Restrictions

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.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should 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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