

SikaBit® Pro P40 -15 PE EG

Modified Bitumen Plastomeric Waterproofing Membrane Composite Polyester Reinforcement

Product Description Bituminous Plastomeric Waterproofing Membrane made of a special grade of bitumen modified with APP polymers with heavy weight composite polyester (P) of non-woven polyester armoured with glass fiber filaments which provides high mechanical properties and dimensional stability and is enhanced with the addition of special chemical additive to provide the membrane with Rot-proof features to stop the growth of bacteria over the waterproofing layer ..

- Uses**
- Single layer roofing system for high roofing performance.
 - Waterproofing for Exposed roofs and terraces.
 - Waterproofing of underground structures, retaining walls and under raft foundation.
 - Waterproofing of Slab on Grade.
 - Waterproofing for wet areas, mechanical room.

- Characteristics / Advantages**
- Compatible with all types of bituminous waterproofing systems.
 - Absolute impermeability to water
 - High dimensional stability
 - High U.V and weather resistance
 - Resistant to soil chemicals and salts up to certain limit
 - Improved chemical resistance to acidic and alkaline solutions.
 - Polyester reinforcement provides the membrane with tensile strength, tear resistance and elongation.
 - Supper low temperature resistance up to -15° C,
 - Rot Proof.

Approval / Standards Conforms to ASTM D 5 – D36 – D 5147 – D 6222/2000- G53

Product Data

Appearance / Colours Rolled sheet membrane, reinforced.
Surface: Smooth
Membrane thickness: 4.00 mm
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)	≥155°C	(according to ASTM D-36)
Penetration at 25°C	25 - 30 dmm.	(according to ASTM D-5)
Penetration at 60°C	90 - 100 dmm.	(according to ASTM D-5)
Thickness	4.00 mm	



Mechanical / Physical Properties

Tensile Strength

Longitudinal	1050 N/5 cm	(according to ASTM D-5147)
Transverse	800 N/5 cm	(according to ASTM D-5147)

Elongation at break

Longitudinal	≥50%	(according to ASTM D-5147)
Transverse	≥55%	(according to ASTM D-5147)

Static puncture resistance

	L4	(according to UEAtc)
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Dynamic puncture

	I4	(according to UEAtc)
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Tear Strength (Nail-shank)

Longitudinal	300 N	(according to EN 12310-1)
transverse	350 N	(according to EN 12310-1)

Tensile -Tear resistance

Longitudinal	800 N	(according to ASTM D-5147)
Transverse	700 N	(according to ASTM D-5147)

Cold flexibility	-10 to -15	(according to ASTM D-5147)
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Heat Resistance	120°C	(according to ASTM D-5147)
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Dimensional Stability

Longitudinal	±0.2%	(according to UNI 8202)
Transverse	±0.1%	(according to UNI 8202)

Water Absorption	0.09 %	(according to ASTM D-5147)
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Vapour imPermeability	80'000 μ	(according to UNI 8202)
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Joint Tensile Strength

Longitudinal	1050 N	(according to ASTM D-5147)
Transverse	800 N	(according to ASTM D-5147)

Adhesion to concrete (Torch adhered)	25 N/ cm ²	(according to UEAtc)
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Ageing Due to UV Radiation	Pass	(according to ASTM G-53)
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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	<p>The application of SikaBit® Pro P40 –15 PE EG is done 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.</p> <p>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.</p>
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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.
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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.
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Legal Notes	<p>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.</p>
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