

SikaBit® PRO E40-15 PE EG

Modified Bitumenous Waterproofing Membrane Composite Polyester Reinforcement

Product Description	Bituminous Elastomeric Waterproofing Membrane made of a special grade of bitumen modified with SBS polymers and composite Polyester fleece with Glass fiber which acts as the internal reinforcement, provides high mechanical strength and high dimensional stability.	
Uses	<ul style="list-style-type: none"> ■ Roofing and reroofing applications. ■ Applications subject to moderate mechanical stress and high movements. ■ Waterproofing for wet areas, mechanical rooms and terraces. ■ Waterproofing of underground structures. 	
Characteristics / Advantages	<ul style="list-style-type: none"> ■ Reinforcement provides the membrane with dimensional stability and moderate mechanical properties. ■ Mineral type has an excellent Good U.V resistance. ■ Compatible with all types of bitumenous waterproofing systems. ■ Improved chemical resistance to acidic and alkaline solutions. ■ Polyester reinforcement provides the membrane with tensile strength, tear resistance and elongation. ■ Enhanced thermal resistance under a wide range of temperature fluctuation, ■ Suitable for structures subjected to high water pressure. ■ Upper surface is covered with an anti-adhesive finish material & lower face is laminated with thermo-fusible Polyethylene film <p>NOT: The product is available in mineral slated & Polyethylene film & fine sand finish</p>	
Approval / Standards	Conforms to ASTM D 5 – D36 – D 5147	
Product Data		
Appearance / Colours	Rolled sheet membrane, reinforced. Surface: smooth Membrane thickness: 3.00 mm & 4.00 mm Colour: Black.	
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)	≥125°C	(according to ASTM D-36)
Penetration at 25°C	30-35 dmm.	(according to ASTM D-5)
Penetration at 60°C	110-120 dmm.	(according to ASTM D-5)
Elongation at Break (compound properties)	1400%	(according to EN 12311-1)
Thickness	3.00 mm - 4.00 mm	(according to UNI 8202/23)



Mechanical / Physical Properties		
Tensile Strength		
Longitudinal	850 N/5 cm	(according to EN 12311-1)
Transverse	650 N/5 cm	(according to EN 12311-1)
Elongation		
Longitudinal	≥45%	(according to EN 12311-1)
Transverse	≥50%	(according to EN 12311-1)
Tearing Resistance		
Longitudinal	250 N	(according to EN-12311-1)
Transverse	300 N	(according to EN-12311-1)
Tensile -Tear resistance		
Longitudinal	650 N	(according to ASTM D-5147)
Transverse	500 N	(according to ASTM D-5147)
Static Puncturing	20 kg	(according to EN 12730:2001)
Dynamic Puncturing	1750 mm	(according to EN 12730:2001)
Cold Flexibility (without Anti-adhesive Film)	≥ -15°C	(according to EN- 1109)
Heat Resistance	100°C	(according to EN 1110)
Dimensional Stability		
Longitudinal	±0.2%	(according to EN 1107-1)
Transverse	±0.1%	(according to EN 1107-1)
Impermiability to water at 100 KPa	Absolutely impermeable	(according to EN-1928:2000)
Water Absorption	Less than 0.10%	(according to ASTM D-5147)
Vapor impermeability	80'000 μ	(according to EN 1931)
Joint Tensile Strength		
Longitudinal	850 N/5 cm	(according to EN- 12317-1)
Transverse	650 N/5 cm	(according to EN- 12317-1)
Thermal Ageing Resistance	No signs of deterioration after the test	(according to UNI 8202 /26)
Ultra Violet radiation resistance (U.V Test weathering)	Pass	(according to EN 1296)
Adhesion to concrete (Torch adhered)	40 N/ cm	(according to EN-13596))
Thermal Conductivity	0.12 Kcal/mh°C	(according to ASTM C-177)
Dielectric Rigidity	14 Kv/mm	
Dielectric Constant (K)	2.5	(according to ASTM D-150)

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.

Application Instructions

Application Method / Tools The application of SikaBit®PRO E40-15 PE EG 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.

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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