

## PRODUCT DATA SHEET

# SikaBit® PRO SA-940 G

4 mm elastomeric and plastomeric bituminous hybrid roof membrane, self-adhesive with a mineral granule finish, flexible at -25 °C

### PRODUCT DESCRIPTION

SikaBit® PRO SA-940 G is an SBS & APAO modified, bituminous, 2-layer, self-adhesive, roof waterproofing membrane. The upper layer is APAO modified which provides good heat resistance, the under layer is SBS modified, increasing the elongation and cold flexibility properties. It is reinforced with a dimensionally stable composite inlay of a fibreglass matt compressed between two layers of non-woven spunbond polyester fabric. The underside has a removable liner over the adhesive compound for easy application. Top surface finish: Natural or coloured mineral granules. Thickness: ~4,0 mm

### USES

Roof waterproofing membrane for:

- Flat and sloping roofs
- Protection of various substrates in a wide range of applications as exposed single layer or as upper layer in systems

### PRODUCT INFORMATION

<b>Chemical Base</b>	SBS and APAO modified bitumen	
<b>Reinforcing Material</b>	Composite inlay of a fibreglass matt compressed between two layers of non-woven spunbond polyester fabric	
<b>Packaging</b>	Roll size	
	Length	6,00 m
	Width	1,00 m
<b>Appearance / Colour</b>	Top surface	Mineral granules
	Backing	Release liner
<b>Shelf Life</b>	36 months from date of production	
<b>Storage Conditions</b>	Product must be stored in original unopened and undamaged sealed pack-	

### CHARACTERISTICS / ADVANTAGES

- Combines the advantages of APAO and SBS bitumen
- Good watertightness
- High elongation
- High mechanical properties (tensile, tear, shear)
- Easy to install
- Good durability
- Can be painted immediately after application

### APPROVALS / STANDARDS

- CE marking and Declaration of Performance to EN 13707 - Reinforced bitumen sheets for roof waterproofing
- External fire performance tested according to EN 1187 and classified according to EN 13501-5: BROOF(t4)

aging in dry conditions and temperatures between +5 °C and +35 °C. Store in a vertical position. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Always refer to packaging.

<b>Product Declaration</b>	Reinforced bitumen sheets for roof waterproofing	(EN 13707)
<b>Length</b>	6 m -1 %	
<b>Width</b>	1 m -1 %	
<b>Effective Thickness</b>	4,0 mm ± 5 %	(EN 1849-1)

## TECHNICAL INFORMATION

<b>Resistance to Impact</b>	≥ 1250 mm at +23 °C	(EN 12691- Method A)	
<b>Tensile Strength</b>	Longitudinal	750 N/50 mm ± 20 %	(EN12311-1)
	Transversal	650 N/50 mm ± 20 %	
<b>Elongation</b>	Longitudinal	50 % ± 15 %	(EN12311-1)
	Transversal	50 % ± 15 %	
<b>Tear Strength</b>	Longitudinal	250 N ± 30 %	(EN 12310-1)
	Transversal	250 N ± 30 %	
<b>Joint Shear Resistance</b>	Longitudinal	650 N/50 mm ± 20 %	(EN 12317-1)
	Transversal	550 N/50 mm ± 20 %	
<b>Flexibility at low temperature</b>	-25 °C	(EN 1109)	
<b>External Fire Performance</b>	EXT.F.A.B BROOF(t4)	(BS476) EN 13501-5	
<b>Reaction to Fire</b>	Class E	(EN13501-1)	
<b>Flow resistance</b>	≥ 100 °C	(EN 1110)	
<b>Artificial Ageing</b>	Passed	(EN 1297)	
<b>Water Tightness</b>	60 kPa	(EN 1928-Method B)	

## APPLICATION INFORMATION

<b>Ambient Air Temperature</b>	+5 °C min. / +50 °C max.
<b>Relative Air Humidity</b>	80 % max
<b>Substrate Temperature</b>	+5 °C min. / +50 °C max.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

The supporting structure must be of sufficient structural strength to apply all new and existing layers of the roof build-up. Complete roof system must be designed and secured against wind uplift loadings. The substrate must be uniform, firm, smooth and free of any sharp protrusion or burrs, clean, dry, free of grease, bitumen, oil, dust and loosely adhering particles.

### SUBSTRATE PREPARATION

Use the appropriate preparation equipment to achieve the required substrate quality.

## APPLICATION METHOD / TOOLS

### Installation procedure

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

### Priming

Apply the appropriate primer, Sika® Primer 600 or Sika® Primer 610, at the correct consumption to the prepared dry surface and allow to dry before next application stage. Refer to the individual Product Data Sheets.

### Alignment

Unroll, align and re-roll correctly before bonding. Each membrane must be laid parallel to each other and must be staggered by at least 1 m to avoid coinciding joints.

### Overlaps

Side: min. 100 mm. End: 150 mm.

The upper face of the membrane has an overlap strip protected by a siliconized band to facilitate the operation of sealing.

### Bonding

Check the alignment of the sheets before bonding. Re-align where necessary. At one end of the sheet, peel away part of the silicone release liner from the underside and bond this part to the substrate. Then peel away the release liner sideways from the rest of the SikaBit® PRO SA-940 G sheet to allow it to bond to the substrate. Then roll the entire surface area of the applied membrane with a suitable heavy roller ensuring any air bubbles are removed.

### Detailing

All details such as internal and external corners, up-stands, vent pipes, drains, support metalwork etc. must be cut and sealed effectively. Detailing (not bonding) must follow the recommended guidelines and good practice for bituminous membranes.

### Protection

The membrane must be protected from damage during any ongoing site activities.

## MAINTENANCE

To maintain the function of the roof during its lifespan, it is advisable to arrange periodically for inspection of the membrane and detailing. Check the functionality of the auxiliary works, flashings, drainage outlets, overflow pipes etc. including removing leaves, moss and other vegetation, which could cause ponding on the roof and overload the drainage system.

## LIMITATIONS

- The limiting factor in the wind up-lift resistance of the adhered roofing assembly will be the adhesion strength of the SikaBit® PRO SA-940 G to the substrate.
- For slopes over 15 %, multi-layered roof layers including self-adhesive membranes must be carefully designed and if necessary integrated with mechanical fastenings.
- Laying the membrane at temperatures  $\leq +5$  °C is permitted if temporary heating is provided using suitable

heat producing equipment to heat the substrate to  $\geq +5$  °C.

- Laying the membrane at temperatures  $\leq +10$  °C and / or in high humidity conditions, use suitable heat producing equipment to heat and / or dry the substrate.
- At low temperatures, take care unrolling to avoid damaging the membrane.
- When laying the membrane at high temperatures, the integral adhesive will become 'tacky' and may restrict laying operations.
- Use suitable footwear to avoid puncturing the membrane.
- Visible sheets applied vertically must be secured mechanically at the end. The same is valid for walls in contact with the ground.
- Do not apply to wet, damp or unclean substrates / surfaces.
- If a seasonal symbol is printed on the roll's label, it is advisable to use the membrane during the indicated season.

## VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## ECOLOGY, HEALTH AND SAFETY

### REGULATION (EC) NO 1907/2006 - REACH

REGULATION (EC) NO 1907/2006 - REACH: This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w).

## 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 war-

ranty 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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