

## PRODUCT DATA SHEET

# SikaBit® P40 -10 HR23

PLASTOMERIC, BITUMINOUS, TORCH-APPLIED WATERPROOFING MEMBRANE



### DESCRIPTION

SikaBit® P40 -10 HR23 is an APP modified, bituminous, torch-applied, waterproofing membrane. It is reinforced with Spunbond Polyester. The underside has a thin polyethylene burn-off film for easy application. It can be applied to wood, metal and concrete substrates including over existing bitumen roofing membranes. Top surface finish: sand. Membrane thickness: ~ 4 mm.

### USES

Waterproofing membrane for:

- road and rail bridges
- viaducts
- galleries
- foundations and underground structures
- roof coverings

### CHARACTERISTICS / ADVANTAGES

- High mechanical properties (tensile, tear, shear)
- High elongation
- Resistance to piercing and perforation
- Good watertightness
- Dimensionally stable

### APPROVALS / CERTIFICATES

CE marking and Declaration of Performance according to EN 14695 - Installations on concrete bridge decks and other trafficked areas of concrete

### PRODUCT INFORMATION

<b>Composition</b>	APP modified bitumen, reinforced with Spunbond Polyester (230 g/m <sup>2</sup> )	
<b>Packaging</b>	Roll dimensions	
	Length	8,0 m
	Width	1,0 m
<b>Appearance / Colour</b>	Top surface	Sand / grey
	Back surface	Polyethylene film / black
<b>Shelf life</b>	36 months from date of production	
<b>Storage conditions</b>	Product must be stored in original unopened and undamaged sealed packaging 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>	EN 14695	

Length	8,00 m (±0,2 %)	(EN 1848-1)
Width	1,00 m (± 1%)	(EN 1848-1)
Effective thickness	4,00 mm (±7%)	(EN 1849-1)

## TECHNICAL INFORMATION

Resistance to static puncture	300N (±15%)	(EN 12730)
Tensile strength	Max. Tensile strength longitudinal	1100 N / 50mm (± 10%) (EN 12311-1)
	Max. tensile strength transversal	900 N / 50mm (± 10%)
Elongation	Longitudinal	50% (± 10%) (EN 12311-1)
	Transversal	50% (± 10%)
Dimensional change after heat	At 160 °C 0,3%	(EN 14695 / EN 1107-1 Annex. B)
Resistance to tear	Longitudinal	250 N (±15%) (EN 12310-1)
	Transversal	250 N (±15%)
Joint shear resistance	0,2 N/mm <sup>2</sup> (Asphalt Concrete)	(EN 13653)
	0,3 N/mm <sup>2</sup> (Mastic Asphalt)	
Flexibility at low temperature	≤ -10 °C	(EN 1109)
Reaction to fire	Class F	(EN 13501-1)
Flow resistance	At elevated temperature (≥ 130°C)	(EN 1110)
Watertightness	Pass	(EN 14694)
Water absorption	0,5%	(EN 14223)
Durability of watertightness against ageing	120 °C	(EN 1296 – EN 1110)
Service temperature	-20 °C to +70 °C	
Surface burning characteristics	Behavior of Bitumen Sheets During Application of Mastic Asphalt 10mm at -10 °C	(EN 14693)

## SYSTEMS

System structure	Ancillary Product: Primer: Sika® Igoflex® P-10 GR
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## APPLICATION INFORMATION

Ambient air temperature	+5 °C min. / +50 °C max.
Relative air humidity	80% max.
Substrate temperature	+5 °C min. / +50 °C max.
Substrate moisture content	No visible moisture

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

The supporting structure must be of sufficient structural strength to apply all new and existing layers of the waterproofing build-up. When used as a roofing membrane, the 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.

Horizontal surfaces must be sloped > 1,5%.

### SUBSTRATE PREPARATION

Use the appropriate preparation equipment to achieve the required substrate quality. For more information please refer to "SikaBit® Application Manual" and to "SikaBit® Application Guide".

### 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 Sika® Igoflex® P-10 GR primer (consumption ~0,30 kg/m<sup>2</sup>), at the correct consumption to the prepared dry surface and allow to dry before next application stage. Refer to the individual Product Data Sheet.

#### Alignment

Unroll, align and re-roll correctly before torching.

#### Overlaps

Side: 100mm. End: 150 mm.

#### Torching

Use a gas burner to heat the substrate and the backing film on the underside of membrane. When the backing film starts to melt, the membrane is ready to stick. Roll the membrane forward and press firmly against the substrate, in order to avoid air entrapments and ensure a secure bond, either with roller or heavy broom. Ensure a bead of melted bitumen is visible along the full length of the overlap sides and ends when laying.

#### Detailing

All details such as internal and external corners, upstands, vent pipes, drains, support metalwork, e.t.c. must be cut and sealed effectively. Detailing must follow the recommended guidelines and good practice for torch-applied membranes.

#### Protection

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

## FURTHER INFORMATION

- Application Manual: SikaBit®
- Application Guide: SikaBit®

## IMPORTANT CONSIDERATIONS

- This product shall only be used by installers, skilled and experienced in installation of bituminous membranes.
- Avoid damage on installed membrane while over torch of further sheet membrane.
- The watertightness of the structure must be tested and approved after completion of the membrane installation works and according to the requirements of the client's specifications.
- The membrane is not UV - stable and can not be installed on structures permanently exposed to UV light and weathering.

## BASIS OF PRODUCT DATA

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.

## 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.

## ECOLOGY, HEALTH AND SAFETY

### 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 the 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 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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**Product Data Sheet**

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