

## PRODUCT DATA SHEET

# SikaBit® PRO E40 -20 PE HR

Elastomeric bituminous waterproofing membrane, torch applied, flexible at -20 °C

### DESCRIPTION

SikaBit® PRO E40 -20 PE HR is a SBS modified bituminous waterproofing membrane which is torch applied and flexible at -20 °C. It is reinforced with a non-woven polyester fabric, which gives dimensional stability to the membrane. The underside has a burn-off film for easy application. The top side is surfaced by a thin polyethylene foil, ensuring the sealing of the joints, fast and secure adhesion to the laying surface.

### USES

Waterproofing membrane for:

- Flat roofs under protective layers or ballast
- Balconies and terraces under tiles
- Retaining walls and basements
- Wet areas
- As a base sheet in a double layer roofing system
- A single layer or as a base sheet in multilayer roofing systems
- Protection of many substrate types over a wide range of applications

### CHARACTERISTICS / ADVANTAGES

- Thickness: ~4,0 mm
- Good watertightness
- High elongation and cold flexibility
- High mechanical properties (tensile, tear, shear)
- High resistance to impact
- Easy to install by torching method
- Choice of primers to suit substrate and weather conditions

### APPROVALS / CERTIFICATES

- CE marking and Declaration of Performance to EN 13707 - Reinforced bitumen sheets for roof waterproofing
- CE marking and Declaration of Performance to EN 13969 - Damp proofing for buildings, including basement tanking

### PRODUCT INFORMATION

<b>Composition</b>	SBS modified bitumen	
<b>Reinforcing material</b>	non-woven polyester fabric	
<b>Packaging</b>	Roll size	
	Length	10,00 m
	Width	1,00 m
Please contact our customer service, for information of what packaging sizes are sold in Denmark.		
<b>Appearance / Colour</b>	Top surface	Polyethylene film
	Backing	Polyethylene film
<b>Shelf life</b>	36 months from date of production	

<b>Storage conditions</b>	Product must be stored in original unopened and undamaged 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 13707: Reinforced bitumen sheets for roof waterproofing EN 13969: Damp proofing for buildings, including basement tanking	
<b>Length</b>	10 m ± 1,0 %	(EN 1848-1)
<b>Width</b>	1 m ± 1,0 %	(EN 1848-1)
<b>Effective thickness</b>	4,0 mm ± 0,2 mm	(EN 1849-1)

## TECHNICAL INFORMATION

<b>Resistance to impact</b>	≥ 1250 m	(EN 12691)	
<b>Tensile strength</b>	<u>Longitudinal</u>	<u>650 N/50 mm ± 20 %</u>	(12311-1)
	<u>Transversal</u>	<u>500 N/50 mm ± 20 %</u>	
<b>Elongation</b>	<u>Longitudinal</u>	<u>40 % ± 15 %</u>	(12311-1)
	<u>Transversal</u>	<u>40 % ± 15 %</u>	
<b>Tear strength</b>	<u>Longitudinal</u>	<u>160 N ± 30 %</u>	(12310-1)
	<u>Transversal</u>	<u>200 N ± 30 %</u>	
<b>Joint shear resistance</b>	<u>Longitudinal</u>	<u>600 N/50 mm ± 20 %</u>	(12317-1)
	<u>Transversal</u>	<u>400 N/50 mm ± 20 %</u>	
<b>Flexibility at low temperature</b>	≤ -20 °C	(EN 1109)	
<b>Flow resistance</b>	≥ 100 °C	(EN 1110)	
<b>Watertightness</b>	60 kPa (Method B)	(EN 1928)	
<b>External fire performance</b>	F roof	(EN 13501-5)	
<b>Reaction to fire</b>	Class E	(EN 13501-1)	

## 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.

## 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.

## 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 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)

## IMPORTANT CONSIDERATIONS

- At low temperatures, take care unrolling to avoid damaging the membrane.
- Use suitable footwear to avoid puncturing the membrane.
- Do not apply to wet, damp or unclean surfaces.
- Do not over-torch the membrane otherwise the polyester reinforcement (which melts at +260 °C) will be damaged making the membrane un-useable.
- If membrane is insufficiently heated, this can cause reduced adhesion to the substrate, between layers or on the overlaps. If this occurs, un-bonded areas must be lifted and re-torched.
- If a seasonal symbol is printed on the roll's label, it is advisable to use the membrane during the indicated season.

## 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.

### 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 from the Sika® Igoflex® P range, 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 torching.

#### Overlaps

Side: 100mm. End: 150 mm.

#### Fastening

SikaBit® PRO E40 -20 PE HR when used as a roofing base sheet, can be mechanically fixed on the substrate by using the correct type of fasteners. Contact Sika Technical Services for additional information.

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### 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 to bond. 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, up-stands, vent pipes, drains, support metalwork etc. 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.

## MAINTENANCE

To maintain the function of the waterproofing during its lifespan, it is advisable to arrange periodically for inspection of any exposed membrane and detailing. Check the functionality of the auxiliary works, flashings, drainage outlets, overflow pipes etc. including removing leaves, moss and other vegetation.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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