

PRODUCT DATA SHEET

SikaShield® 20/45

Bitumen hot melt in block form from restructured bitumen

DESCRIPTION

SikaShield® 20/45 is a bitumen hot melt adhesive in block form made of restructured bitumen. It is melted in commercial bitumen heating tanks until the viscosity required for processing is reached.

USES

Restructured bitumen hot melt adhesive for bonding of

- Bitumen waterproofing membranes in mopping process
- cellular glass insulation

FEATURES

- Low application temperature
- Oderless
- Chemically well tolerated
- High dimensional stability

PRODUCT INFORMATION

Composition	Restructured bitumen Filler content: 0 mass-%
Packaging	17 kg block
Colour	black
Shelf life	24 months if stored properly
Storage conditions	Store dry and protected from temperature. During the warm season, protect against possible warping caused by heat.
Density	at +25 °C 1.000 - 1.100 (EN ISO 3838)
Viscosity	at +160 °C 180 - 250 mPa*s (EN 13702)

TECHNICAL INFORMATION

Softening point	Ring to ball +90 °C - 120 °C	(EN 1427)
Flexibility at low temperature	breaking point according to Fraass ≤ -12 °C	(EN 12593)
Needle penetration	at +25 °C 20 - 45 [1/10 mm]	(EN 1426)

APPLICATION INFORMATION

Consumption	<ul style="list-style-type: none">▪ For full-surface bonding of bituminous waterproofing layers: about 2 to 2.5 kg/m²▪ For full-surface bonding of cellular glass insulation: about 5 to 7 kg/m²
Ambient air temperature	We recommend a minimum temperature of +5 °C during the application.
Substrate temperature	We recommend a minimum temperature of +5 °C during the application.
Substrates	Do not use on damp surfaces.

BASIS OF PRODUCT DATA

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

ECOLOGY, HEALTH AND SAFETY

Fresh air ventilation must be ensured, when working (bitumen heating tanks and mopping process) in closed rooms.

The additional national regulations, in particular concerning employee protection, must be observed!

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).

APPLICATION INSTRUCTIONS

General provisions on substrate quality:

The substrate provided with suitable primer must be even, firm, smooth and free of sharp projections or protrusions or burrs, clean, dry and free from grease, oil, dust and loosely adhering particles.

General provisions for the application:

Strictly follow installation procedures as defined in method statement, application manuals and working instructions which must always be adjusted to the actual site conditions. All corresponding processing standards and regulations must be obeyed.

APPLICATION

The recommended application temperature is +160°C (± 10°C).

At this temperature, optimum bonding performance is achieved through optimum properties such as flowability, adhesion and tensile strength.

In order to melt the blocks of SikaShield® 20/45 at the correct temperature, we recommend the use of temperature control tanks.

Temperatures above +170°C should be avoided. Above this temperature the performance of SikaShield® 20/45 may deteriorate.

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.

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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