

## PRODUCT DATA SHEET

# SikaShield® TP-HK

Bitumen hot melt in block form from plastomeric bitumen for bridge bitumen membranes

### DESCRIPTION

SikaShield® TP-HK is a bitumen hot-melt adhesive in block form made of plastomeric bitumen and is melted in commercial bitumen heating tanks until the viscosity required for processing is reached. SikaShield® TP-HK confirms with the requirements of RVS 15.03.12.

### USES

Plastomeric bitumen hot melt adhesive for bonding of

- Bitumen bridge waterproofing membranes in the mopping process (SikaShield® EL-1 and SikaShield® EL-2)

### FEATURES

- Plastic behavior
- High adhesive strength and shear strength
- Externally monitored and system tested
- Odorless
- Chemically well tolerated

### CERTIFICATES AND TEST REPORTS

Inspection report bridge waterproofing materials according to RVS 15.03.12 - Institute for Materials Testing, Technical University Graz

System Approval Bridge Waterproofing - FSV (Research Association Road - Rail - Traffic)

### PRODUCT INFORMATION

<b>Composition</b>	Plastomeric bitumen Filler content: 0 mass-% Ash content: ≤ 5 mass-% (DIN 52005)
<b>Packaging</b>	17 kg block
<b>Colour</b>	black
<b>Shelf life</b>	24 months if stored properly
<b>Storage conditions</b>	Store dry and protected from direct sunlight and high temperatures.

### TECHNICAL INFORMATION

<b>Shear adhesion strength</b>	≥ 0.08 MPa Shear deformation: ≥ 5 %	(RVS 15.03.12)
<b>Softening point</b>	Ring and ball ≥ +150 °C	(EN 1427)
<b>Flexibility at low temperature</b>	≤ -5 °C	(RVS 15.03.12)

## APPLICATION INFORMATION

<b>Consumption</b>	▪ For full-surface bonding of bituminous waterproofing layers: about 2 to 2.5 kg/m <sup>2</sup>
<b>Ambient air temperature</b>	We recommend a minimum temperature of +5 °C during the application.
<b>Substrate temperature</b>	We recommend a minimum temperature of +5 °C during the application.
<b>Substrates</b>	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 Notes:

Our installation instructions for bitumen waterproofing systems, as well as the information provided under the "Regulations and Guidelines" section, must be followed.

In general, the relevant regulations (e.g., the RVS series—Waterproofing and Pavements on Bridges and Other Concrete Traffic Areas), standards, and codes must be followed.

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Particular attention should be paid to RVS 08.07.03, "Technical Contract Conditions, Surface Protection, and Waterproofing of Concrete."

For all of these documents, the currently valid version must be used.

### SUBSTRATE PREPARATION

Requirements for the applied primer according to RVS 08.07.03, Section 6.4:

Surface roughness:

- Flame-applied method: 0.3 to 1 mm
- Pouring method: 0.3 to 1.5 mm

Tear strength:

- Average value:  $\geq 1.5$  MPa
- Individual value:  $\geq 1.3$  MPa

### APPLICATION

It is melted in commercially available bitumen cookers (agitated kettles) until the viscosity required for processing is reached.

To prevent overheating, processing temperatures above +270 °C are not permitted.

The processing temperature is approximately +250 to +270 °C.

## 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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