SCHOMBURG ICS GmbH
Aquafinstrasse 2 - 8
D-32760 Detmold, Germany
phone +49-5231-953-02
fax +49-5231-953-390
web www.schomburg.com

SCHOMBURG

Technical Data Sheet

INDUCRET®-VK-UK1

Art.-No. 5 50036

Pourable polysulphide joint sealant

Properties:
INDUTEC-VK-UK1 is a pourable, self levelling, two component polysulphide with the following properties:
- elastomeric
- resistant to fuels, technical oils, alkalis, dilute acids, salt solutions
- kerosene resistant
- resistant to weathering and ageing
- fulfils the requirements for total feasible deformation of 35% of the joint width
- with the primer INDUCRET-VK-Primer (for porous substrates) the joint sealant fulfils the requirements of ZTV Fug-StB 01 (additional technical contractual terms and directives for road bases in road construction) for sealants in areas with vehicular traffic.
- suitable for duty classifications A, B and C.

Areas of application:
INDUTEC-VK-UK1 is used in tramway track construction as a joint between rails and floor finish, amongst others pavers or asphalt surfaces e.g. type 01/11 S, Polymer modified Bitumen PmB 45A. INDUTEC-VK-UK1 is used for the elastomeric sealing of floor joints between construction elements subjected to foot and vehicular traffic e.g. in
- multi-storey car parks
- underground parking
- open air concrete areas
- warehouses
- production areas
- airfields.

For sealing vertical joints use INDUTEC-VK-UK2.

Technical Data:

Basis:	polysulphide
Colour:	grey
Consistency:	pourable
Density:	approx. 1.60 g/cm³
Temperature of construction components:	+5° C to +40° C
Pot life:	approx. 2 hours at +20° C/ 65% RH
Through cure:	approx. 24 – 48 hours at +20° C / 65% RH (temperature dependent)
Shore A hardness:	approx. 15 at +20° C
Stress/Strain value for 100% elongation:	approx. 0.2 N/mm² at +20° C
Feasible total deformation:	approx. 35% of joint width at +10° C construction component temperature

Cleaning:
Tools must be carefully cleaned immediately after use with INDU-IB Cleanser.

Packaging:
INDUCRET-VK-UK1 is available in 10 litre containers. Other packaging available on request. Components A and B are provided in a predetermined mixing ratio.

Storage:
12 months, when stored in cool, dry conditions above +10° C in the original unopened containers.

Surface preparation:
The contact surface to be treated must be:
- dry, firm, sound and have a good grip
- free from separating and adhesion inhibiting substances such as dust, laitance, grease, oil, rubber marks, paint residues and similar
- protected from the effects of moisture from the rear.

The following criteria are to be observed dependent on the particular substrate:

INDUCRET®-VK-UK1

Cementitious surfaces:

- Concrete classification: min. C20/25
- Screed classification: min. EN13813 CT-C25-F4
- Age: min. 28 days
- Tensile adhesion strength: >1.5 N/mm²
- Residual moisture: < 4.0% (carbide hygrometer)

Design requirements:

The design requirements for joint construction must be as given in accordance with DIN 18 540 as well as IVD data sheet No.1 (Industrial Sealants Association) and verified on site. In particular the joint width must be calculated so that the total joint movement is not greater than that suitable for the joint sealant. Joint edges must be prepared for application by chamfering especially in vehicular traffic areas. The chamfers should not be filled.

Product preparation:

Components A (resin) and B (hardener) are delivered in a predetermined mixing ratio. Tip component B into component A. Ensure that the hardener drains completely from its container.
Mixing of the components is to be carried out with a suitable mixer at approx. 300 rpm (e.g. drill with TKF paddle). It is important to stir from the sides and the bottom to ensure that the hardener is evenly dispersed. Stir until the mix is homogenous (free from striations); mixing time approx. 5 minutes. It is especially important to ensure that no air is entrapped. This can be avoided by using the TKF mixing paddle. The minimum temperature during mixing and application should not fall below +10° C. The construction component temperature may not be below +5° C or above +40° C.
Without entraining air the homogenously mixed sealant is filled into the joint using a caulking gun e.g. Fließpistole-TKF or a spatula and smoothed. The joint edges should be masked. Any bubbles rising to the surface should be removed, within the pot life, by lightly smoothing over with a polishing stick or a flat soft brush.

Method of application / consumption:

1. Part fill the prepared joint with a closed cell backing strip ensuring that the backing strip is not damaged. For tramway construction it is assumed that the rail chamber is filled.
2. Prime the joint edges:
   a. with porous areas of contact: Use INDUCRET-VK-Primer S. Allow adequate time to flash-off – minimum approx. 30 minutes up to maximum waiting time of 4 hours (at +23° C and 65% RH).
   b. with non porous areas of contact: Use INDUCRET-VK-Primer. Allow adequate time to flash-off – minimum approx. 10 – 30 minutes up to maximum waiting time of 4 hours (at +23° C and 65% RH).
   c. with asphalt contact areas (newly cut): Use INDUCRET-VK-Primer A. Allow adequate time to flash-off – approx. 2 hours at +23° C and 65% RH.
3. Prior to application of the sealant mask the joint edges with self-adhesive tape.
4. Application of the sealant: Pour the thoroughly prepared INDUCRET-VK-UK1 into the joint. Material consumption of INDUCRET-VK-UK1 is calculated from the formula: Joint width (mm) x fill depth of sealant (mm) = ml/m joint. Example: joint dimensions 10 x 20 mm = 200 ml/m. Prevent early loading during the setting period (e.g. too great a temperature difference, vehicular traffic with direct contact).

Health and safety:

Component A of INDUCRET-VK-UK1 can be handled without particular precautions. As when using other chemicals direct contact with the skin should not occur. In all cases the government health and safety protective directive should be observed.

Important advice:

- Higher temperatures shorten the pot life. Lower temperatures increase the pot life and curing time.
- The bond between the individual materials can be heavily impeded through the influence of dampness or contamination between the applied materials.

INDUCRET®-VK-UK1

- When longer waiting times occur after application of the primer the existing surface must be well cleaned and abraded, after which the joint edges should be re-treated.
- Applications that are not clearly explained in this technical data sheet may only be carried out after consultation with and written confirmation from the Technical Services Department of SCHOMBURG ICS GmbH.
- Cured product residues are household waste. The individual A and B components should be disposed of under waste disposal classification 08 04 06 (adhesives and sealants that contain no halogenated solvents). Thoroughly emptied containers may be disposed of via recycling centres.

Please observe a valid EU safety data sheet!