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-TKF25

Art.-No. 5 50005

Pourable polysulphide joint sealant

Properties:
INDUCRET-VK-TKF25 is a pourable, self levelling, two component polysulphide joint sealant with the following properties:
- elastomeric
- resistant to fuels, technical oils, alkalis, dilute acids, salt solutions
- kerosene resistant.

Areas of application:
INDUCRET-VK-TKF25 is used in tramway track construction (patent number 10 105477) as a joint between rails and the floor finish e.g. amongst others pavers or asphalt surfaces e.g. type 01/11 S, or polymer modified bitumen PmB 45A. Furthermore INDUTEC-VK-TKF25 is used for the elastomeric sealing of floor joints between construction elements subjected to foot and vehicular traffic e.g. in petrol stations, garages, car storage areas and airfields in accordance with IVD data sheet No. 6 (industrial sealants association).

INDUCRET-VK-TKF25 is a component of the systems: INDUTEC-VK-Monolith, INDUCRET-VK-Element, INDUTEC-VK-Revision.

Technical Data:

Basis:	polysulphide
Colour:	grey
Consistency:	pourable
Density:	approx. 1.6 g/cm³
Temperature of construction components:	+5° C to +40° C
Pot life:	approx. 2 hours at +20°C/ 65% RH
Through cure:	even 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% extension:	approx. 0.2 N/mm² at +20° C
Feasible total deformation:	approx. 25% of joint width at +10° C construction component temperature

Cleaning:
Tools must be carefully cleaned immediately after use with the appropriate cleaner e.g. acetone.

Packaging:
INDUCRET-VK-TKF25 is available in 10 litre containers. Components A and B are provided in a predetermined mixing ratio. Larger packaging available on request.

Storage:
12 months when stored cool and dry above +10° C in the original 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:

Cementitious surfaces:
- Concrete classification: min. C20/25
- Screed classification: min. EN 13813 CT-C25-F4
- Age: min. 28 days
- Tensile adhesion strength: >1.5 N/mm²
- Residual moisture: <4.0% (carbide hygrometer)

INDUCRET®-VK-TKF25

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. 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. A three sided bond is to be avoided whereby a separating strip is laid at the bottom of the joint.
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 abraded): 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-TKF25 into the joint.

Material consumption of INDUCRET-VK-TKF25 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-TKF25 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.
- 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.

INDUCRET®-VK-TKF25

- 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 09 (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!