



Technical Data Sheet

INDUCRET®-VK-HSD

Art.-No. 5 50019

Highly fluid grouting adhesive for void containing asphalt

Properties:

INDUCRET-VK-HSD is a highly fluid grouting adhesive for asphalt containing voids with the following properties:

- cement-based, modified
- pumpable
- can be slurried
- high flow; ensures pore filling
- jointless construction method
- not sensitive to cracks
- high compaction
- resistant to freeze/thaw cycles
- rapid strength development
- high abrasion resistance.

Areas of application:

INDUCRET-VK-HSD is used as a highly fluid grouting adhesive for stably filling open-pored asphalt in accordance with the "Information sheet for the installation of semi-rigid toppings". INDUCRET-VK-HSD is used in areas with vehicular traffic under heavy dynamic and static load such as:

- roadways
- bus lay-bays
- lorry loading bays
- traffic light crossings
- track areas
- container storage areas
- etc.

Technical Data:

Basis: modified cementitious mortar
Particle size: 0.25 mm
Wet density of fresh mortar: approx. 2.12 kg/dm³
Water demand: approx. 25%
(6.25 litres / 25 kg)

Flow time
(Marsh hopper, 10 mm): approx. 40 – 50 seconds

Pot life *: approx. 60 minutes at +20 °C and 65% relative humidity

Application temperature *: min. +5 °C to max. +35 °C (asphalt and ambient temperature)

(*): Asphalt and ambient temperatures below +20 °C delay the setting time. Asphalt and ambient temperatures above +20 °C accelerate the setting time.

Compressive strength *: ≥ 40 N/mm² after 24 hours
 ≥ 60 N/mm² after 3 days
 ≥ 100 N/mm² after 28 days
Flexural strength *: ≥ 5.0 N/mm² after 24 hours
 ≥ 10.0 N/mm² after 3 days
 ≥ 12.0 N/mm² after 28 days

Foot traffic *: after approx. 24 hours
Rolling vehicular traffic (2/3 load) *: after approx. 2 days
Full load *: after approx. 7 days
Acceptable loads on the finished semi-rigid finish: ≤ 10.0 N/mm²

*) These values refer to +20 °C and 65% relative humidity.

Cleaning:

Thoroughly clean tools with water after use.

Packaging:

25 kg bags. Other pack sizes on enquiry.

Storage:

6 months when stored dry and free from frost above +10 °C in the original unopened packaging. Used opened packaging promptly.

INDUCRET®-VK-HSD

Substrate / load bearing base:

Surface preparation:

Semi-rigid finishes must be installed onto stable bonded bases. Refer to the "Information sheet for the installation of semi-rigid toppings", 2004 version. The pore volume must be a minimum of 25% and the pores must be continuous. The installation thickness of the open-pored asphalt should be between 4 and 5 cm.

Spray the substrate with e.g. a bitumen emulsion U 60 K. It is recommended that a quantity of 0.5 – 1.0 kg/m² is applied. Higher consumption may be necessary dependent on substrate. The temperature of the void containing asphalt: min. +5 °C, max. +35 °C.

Mixing:

Forced paddle mixer with bagged product:

Firstly place the required quantity of water into the forced paddle mixer leaving out a residual amount. Afterwards add the material whilst stirring and mix for 3 minutes; add the remaining water and mix for a further 2 minutes until the mortar is creamy and lump free. When using a screw feed mixer (e.g. type: PFT horizontal mixer, type: HM 2002 or PFT G4 or G5) set the water dosage rate beforehand.

Quality assurance notes:

Before starting and during processing monitor the flow rate and water addition. This is carried out with a Marsh hopper (10 mm nozzle) using a slump gauge. Refer to the technical data sheet for necessary tolerances.

Application, preparation:

Seal drainage channels, channel shafts etc. against mortar penetration. Also seal exposed edges of the open-pored asphalt against mortar run-off. Protect adjacent construction components such as e.g. supports, walls against contamination with a protective spray coat.

Installation of INDUCRET-VK-HSD:

Pour or pump the mortar onto the open-pored asphalt. Spread the mortar, which has been applied to excess, over the section with rubber squeegees until slumping is no longer seen. The falls on the asphalt can be up to 3%. Where greater falls are present particular steps are necessary.

For a speedy mortar penetration into the asphalt it is advantageous if a vibrating plate is used during installation.

After the asphalt is completely saturated, remove excess mortar from the surface by striking off hard using a sponge rubber squeegee over the stone tops.

Post treatment:

For further advice see also the "information sheet for the installation of semi-rigid toppings", 2004 version. Where coatings or road markings are to be applied to the finished area, remove all separating substances beforehand.

In isolated cases the finished surface can also be covered with sacking or polythene.

Please observe a current EU health and safety data sheet.

GISCODE: ZP1