



Technical Data Sheet

INDUCRET®-VK-4045

Jointing tape and concrete adhesive

Art.-No. 5 50029

Properties:

INDUCRET-VK-4045 is a solvent free two component epoxy resin.

- High tensile adhesion strength.
- Good bond to dry and damp backgrounds.
- Resistant to a variety of dilute acids, alkalis and concrete aggressive water.
- Water washable in the fresh state.

Areas of application:

INDUCRET-VK-4045 is used as a construction adhesive for bonding:

- INDUFLEX-Elastomer-Fugenbänder (jointing tapes)
- Precast concrete elements (e.g. shaft rings)
- Filling wide joints in concrete
- Under pouring and bonding of metal rails, flanges and profiles
- Bedding in and grouting of anchors, site posts etc.

Technical Data:

Basis:	2 component epoxy resin
Colours:	grey
Viscosity:	trowelable consistency
Density:	approx. 1.36 g/cm ³ at +23 °C
Material consumption:	approx. 1.36 kg/m ² /mm thickness
Mixing ratio:	100:9 parts by weight
Pot life:	approx. 35 mins at +20 °C
Minimum cure temp:	+8 °C
Overcoat after:	min. 8 hrs, max. 24 hrs at +23 °C
Light/full traffic after:	36 hrs / 3 days at +23 °C
Tensile adhesion strength:	concrete failure

Cleaning:

All tools must be thoroughly cleaned with water at every interruption in work.

Packaging:

INDUCRET-VK-4045 is available in 6 kg containers. Both components are delivered at a predetermined mixing ratio.

Storage:

Both components (A and B) can be stored for 12 months in closed containers. Store dry and frost free at approx. +10 °C.

Surface preparation:

The area to be treated must be

- dry, solid, load bearing and have a good profile
- free from separating and adhesion inhibiting substances such as dust, laitance, grease etc.

Dependant on its condition the following suitable methods can be used to prepare the background to be treated; planing, scabbling, grit blasting, shot blasting.

The following criteria also need to be fulfilled dependant on the particular background:

Cement-based surfaces:

- Concrete quality: min. C20/25
- Age of the background: min. 14 days
- Tensile adhesion strength: > 1.5 N/mm²
- Residual moisture: < 6.0%
(carbide hygrometer method)

Iron and steel substrates are to be abraded to shiny metal and protected with an active corrosion inhibitor.

Product preparation:

Components A and B are delivered in a predetermined mixing ratio. Empty component B into component A. Blending of both components is to be carried out using a suitable mixer at approx. 300 rpm (slowly rotating

INDUCRET®-VK-4045

drill with mixing paddle). Mix very thoroughly. It is important also to stir from the sides and the bottom so that the hardener is evenly dispersed vertically. Mix until the mixture is homogenous (free from striations): mix time approx. 3 minutes. Do not use the mixed material directly from the packaging. Pour the mix into a clean vessel and stir through once again thoroughly. The material temperature should be minimum +15 °C.

Application:

INDUCRET-VK-4045 is applied to the prepared background as an adhesive with a trowel, float or notched trowel and evenly spread over the substrate appropriate to the use.

Minimum adhesive bed thickness: 1.0 mm.

- For bonding the jointing tapes INDUFLEX-8000 the adhesive INDUCRET-VK-4045 is applied along both sides of the joint or the crack onto the previously prepared substrate with the appropriate tool. Bed thickness 1.0 to 2.0 mm. Application width 3 - 6 cm (both sides). The inside edge of the jointing tape must be adhesive free to a minimum width of 2 cm. The jointing tape can be laid in a loop or flat. Bed and press the jointing tape firmly into the adhesive. Adhesive consumption: approx. 1 kg, dependant on jointing tape width and substrate.
- When bonding concrete elements (e.g. shaft rings), remove excess adhesive with a trowel or spatula after placing the units. Bed thickness: min. 20 mm. Consumption: approx. 2.6 kg/m² bonded area.
- As an anchoring grout insert the INDUCRET-VK-4045 into the prepared opening. Thoroughly apply and compact to avoid voids. Consumption: approx. 1.33 kg/l.

Health and safety:

Once fully cured INDUCRET-VK-4045 is physiologically harmless. The hardener (component B) is corrosive. Therefore it is imperative that the skin does not come into contact with the hardener. It is recommended that protective gloves are worn. Wash off contamination with plenty of soap and water, preferably containing

2% household vinegar. If splashes get into the eyes, wash out immediately with plenty of water. Subsequently rinse out with an eye wash bottle filled with boric acid solution – available at chemists – then immediately seek a doctor/eye specialist. In all cases please observe the government health and safety protective directive.

Important advice:

- Lower site temperatures increase the consumption. The material also loses its good application properties and reaction times are increased. Higher temperatures reduce the working time.
- 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.
- INDUCRET-VK-4045 is classified in accordance with the ordinance on hazardous substances. Please observe a current EU material safety data sheet.

GISCODE: RE 1