



Technical Data Sheet

INDUCRET®-VK-4020

Art.-No. 5 50015

Two-component thixotropic concrete adhesive

Properties:

INDUCRET-VK-4020 is a two-component, solvent free epoxy resin with the following properties:

- high tensile adhesion strength
- high compressive and flexural strengths
- resistant to many dilute acids, alkalis, solutions aggressive to concrete
- water washable whilst still fresh
- bonds to damp substrates.

Areas of application:

INDUCRET-VK-4020 is used for bonding pre-cast concrete elements (e.g. shaft rings), for filling out wide joints in concrete, under-grouting and bonding of metal rails, flanges and profiles, for grouting anchors, guardrail posts etc.

Technical Data:

Basis:	two-component epoxy resin
Colour:	grey
Viscosity:	trowellable consistency
Density:	approx. 1.37 g/cm ³ at +23 °C
Material consumption:	approx. 1.37 kg/m ² /mm thickness
Mixing ratio:	3:1 parts by weight
Pot life:	approx. 60 minutes at +23 °C
Adhesive open time:	approx. 20 minutes at +23 °C
Minimum cure temp:	+10 °C
Overcoat after:	min. 16 hours, max. 24 hours at +23 °C
Light traffic / full load after:	48 hours / 7 days at +23 °C
Tensile adhesion strength:	concrete failure
Compressive strength:	approx. 50 N/mm ² (DIN 1164, part 7)
Flexural strength:	approx. 25 N/mm ² (DIN 1164, part 7)

Cleaning:

All tools must be thoroughly cleaned with water every time work is suspended.

Packaging:

INDUCRET-VK-4020 is available in 3 kg and 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 the unopened containers. Store dry and free from frost above approx. +10 °C.

Surface preparation:

The area to be treated must be:

- dust free, dry, solid, load bearing and have a good key
- free from separating and adhesion inhibiting substances such as e.g. dust, laitance, grease and similar.

Dependent on the condition of the substrate use suitable means of preparation such as e.g. planing, scabbling, grit-blasting, shot-blasting.

The following criteria must also be respected, dependent upon the particular substrate:

Cement-based areas:

- Concrete quality: min. C20/25
- Age of the substrate: min. 14 days
- Tensile adhesion strength: > 1.5 N/mm²
- Residual moisture: < 4.0%
(carbide hygrometer method)

Iron and steel surfaces are to be abraded to expose bright metal and to be protected with an active corrosion inhibitor.

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Product preparation:

Both components, A (resin) and B (hardener), are delivered in a predetermined mixing ratio. Tip all of component B into component A. It is advantageous to mix both components with a mechanical stirrer at a maximum of 300 rpm (e.g. with a slowly rotating drill with paddle). Mix very thoroughly. Implicitly stir from the sides and the bottom to ensure that the hardener is evenly dispersed vertically. Stir until the mix is homogenous. Do not use directly from the packaging. Decant the material into a clean container and mix through thoroughly once again. The material temperature during mixing should be +15 °C.

Application:

Apply INDUCRET-VK-4020 onto the prepared substrate as an adhesive using a trowel, steel float or notched trowel and spread evenly over the substrate appropriate to the use.

Minimum adhesive bed thickness: 2.0 mm.

When bonding concrete units (shaft rings) remove excess material with a trowel once the individual concrete pieces have been positioned.

When using as a grout, apply the INDUCRET-VK-4020 to the prepared opening. Ensure a particularly careful application and compaction is followed to prevent voids.

Health and safety:

Once completely cured INDUCRET-VK-4020 is harmless. The hardener (component B) is corrosive. Therefore implicitly ensure that the hardener does not come into contact with the skin. It is recommended to wear protective gloves when working with this product. Clean up contamination with plenty of water and soap, preferably with the addition of 10% household vinegar. Should splashes get into the eyes, rinse immediately with plenty of water. Subsequently rinse again with an eye wash bottle containing boric acid solution – available from pharmacies – then consult an optician/doctor immediately. Adhere to the general government health and safety protective directive.

Important advice:

- Lower site temperatures increase the consumption. The material also loses good workability and reaction times are increased. Higher temperatures shorten the pot life.
- 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-4020 is classified in accordance with the ordinance on hazardous substances.

Please observe a current EU health and safety data sheet.

GISCODE: RE 1