



Technical Data Sheet

INDUCRET®-VK-1000

Art.-No. 5 50007

High strength mineral-based PCC bedding adhesive

Properties:

INDUCRET-VK-1000 is a high strength, mineral-based PCC (paver compacted concrete) bedding adhesive with the following properties:

- cement-based
- for interior and exterior use
- high initial and final strength
- minimal tendency to shrink
- good water retaining capacity
- insensitive to cracking at low water / cement ratios (0.35)
- resistant to volume change and ageing
- resistant to frost and thawing salts
- water impermeable
- chloride free
- guarantees a strong adhesive bond to paving finishes of stone quality conforming to TL Min-StB and DIN EN 1342.

Areas of application:

INDUCRET-VK-1000 is used as a bedding adhesive for stone pavers in heavy duty areas. INDUCRET-VK-1000 can be used to accomplish thicknesses of approx. 20 – 90 mm. INDUCRET-VK-1000 is a component of the INDUCRET-VK-Monolith system.

Technical Data:

Particle size:	0 – 4 mm
Wet density of fresh mortar:	2.20 kg/dm ³
Consumption:	20.5 kg/m ² per cm thickness
Addition rate (gauging liquid):	approx. 7% = 1.75 l per 25 kg bag
Mixing time:	approx. 3 – 5 minutes
Pot life *2):	approx. 60 minutes
Application temperature *1):	min. +8 °C to max. +30 °C (substrate and ambient temperature)

Light traffic *2):	after 16 hours
Full load *2):	after 7 days
Compressive strength (DIN 1164) *2):	approx. 35 N/mm ² after 1 day approx. 59 N/mm ² after 3 days approx. 67 N/mm ² after 7 days approx. 73 N/mm ² after 28 days
Flexural strength *2):	approx. 4.9 N/mm ² after 1 day approx. 5.0 N/mm ² after 3 days approx. 7.3 N/mm ² after 7 days approx. 9.6 N/mm ² after 28 days

- *1): Construction components and ambient temperatures below +20 °C delay the setting time. Construction components and ambient temperatures above +20 °C accelerate the setting time.
*2): The values refer to +20 °C and 65% relative humidity.

Cleaning:

Thoroughly clean tools with water after use.

Packaging:

25 kg bags and 1500 kg big bags.

Storage:

9 months when stored dry and free from frost above +10 °C in the original closed packaging. Use opened packaging promptly.

Substrate / load bearing base and stone quality:

The area to be treated must be:

- solid, load bearing and have a good key
- free from separating substances.

INDUCRET®-VK-1000

Dependent on the condition of the substrate and the stone surface use suitable means of preparation such as e.g. high pressure washing, grit blasting or other methods. Exposed reinforcement should be treated with INDUCRET-VK-2050 in accordance with restoration techniques.

Concrete quality of the load-bearing base:	min. C20/25
Tensile adhesion strength:	> 1.5 N/mm ²
Stone quality:	cleaned pore deep conforming to TL Min-StB and DIN EN 1342

Prior to application of the INDUCRET-VK-1000, the substrate (concrete) should be adequately wetted; avoid puddle formation. Prior to laying the bedding adhesive, prepare the matt damp load-bearing base with the bonding aid INDUCRET-VK-2050 (see technical data sheet) in order to achieve a high bond strength. Ensure that the bedding adhesive is applied whilst the bonding aid is still wet. Observe appropriate working times.

Product preparation:

INDUCRET-VK-1000 is delivered ready for use and only requires mixing with gauging liquid. Fill the prepared forced paddle mixer with 7% = 1.75 l per 25 kg bag water leaving out a residual amount, add the powder component and mix for approx. 3 minutes. Add the remaining water and mix for a further 2 minutes. The mix is immediately ready for use. If it is necessary to use a screw mixer (e.g. Type: PFT Horizontal mixer, HM 2002) the water dosage must be set up beforehand. Spray the bedding adhesive shortly before installing the pavers with INDUCRET-VK-2050 in order to ensure optimum adhesion. The bedding adhesive is applied and compacted manually. The use of laths assists in the accuracy of bedding depths. The necessary compaction is achieved by positioning and knocking the pavers up to 20 mm into the adhesive bed.

Grouting with INDUCRET-VK-2000:

After waiting for a minimum of 16 hours at +20 °C the paving finish is ready to be trafficked to enable grouting. Grouting should however be carried out within a maximum of 32 hours at +20 °C.

Post-treatment:

Protect the bedding adhesive used to install the pavers from rapid drying for a minimum of 24 hours through suitable protective measures. The influence of rain, draughts, and extremes of heat and cold should be avoided.

Important advice:

- Protect against rain by suitably covering.
- Impede early water evaporation by covering with damp textiles or polythene (thickness/quality: min. 500 g/m² area weight). At temperatures above +20 °C dampen the textiles with water, as necessary, frequently during the day.
- Lower temperatures and cold gauging liquid delay the strength development. Higher temperatures accelerate the strength development.
- 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.
- Protect areas that are not to be treated from contamination with the above materials.

Please observe a current EU health and safety data sheet.

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