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SCHOMBURG

Technical Data Sheet

INDUCRET®-BIS-1/6

Art.-No. 5 50040

Cementitious fine smoothing mortar for voids from 1 – 6 mm, maximum grain: 0.5 mm

Properties:
INDUCRET-BIS-1/6 is a cementitious fine smoothing mortar for voids from 1 – 6 mm with the following properties:

- a cementitious repair mortar of mortar group M2 for vertical surfaces
- ready to use after mixing with water
- water impermeable
- water vapour permeable
- resistant to frost and de-icing salts
- very easy to use
- impairs the passage of CO_2
- cures with low shrinkage and free from cracks even under dynamic loading and has a high resistance to carbonating.

Areas of application:
INDUCRET-BIS-1/6 is used for concrete restoration as a thioxtropic mortar for re-profiling of:

- Horizontal and vertical surfaces as well as overhead areas for voids from 1 – 6 mm.
- For concrete areas under dynamic load (e.g. carriage way coverings, concrete parapets, soffits of superstructures).

Technical Data:

Colour:	cement grey
Basis:	cement
Components:	1
Particle size:	up to 0.5 mm
Bulk density:	1.3 kg/dm³
Wet density:	2.0 kg/dm³
Working life:	approx. 60 minutes at +20 °C
Overcoat after:	min. 1 day
Application temp:	min. approx. +5 °C, max. approx. +35 °C
Compressive strength:	24 hours approx. 15 N/mm² 7 days approx. 30 N/mm² 28 days approx. 50 N/mm²
Flexural strength:	24 hours approx. 3 N/mm² 7 days approx. 7 N/mm² 28 days approx. 9 N/mm²

Cleaning:
Thoroughly clean tools with water after use.

Packaging:
25 kg bag

Storage:
12 months when kept in the original unopened packaging under dry and cool conditions above +10 °C.

Surface preparation:
Before application of INDUCRET-BIS-1/6 the substrate is to be intensively pre-wetted but during application of INDUCRET-BIS-1/6 the relevant substrate may however only be matt damp. Surface preparation is necessary such as e.g. grit or shot blasting, high-pressure water jetting if no previous restoration work was carried out. Cementitious surfaces must be solid with a good grip and be load-bearing, free from cement laitance, loose particles as well as adhesion inhibiting substances (oil, grease, rubber marks, paint residues or other contamination).

Average surface tensile strength: min. 1.5 N/mm²

Product preparation:
1. Production of the repair mortar:

- INDUCRET-BIS-1/6 = 25.0 kg
- Water = approx. 5.0 – 5.25 litres

Fill a mixing vessel with up to 80% of the above mentioned water quantity.
Add the required quantity of INDUCRET-BIS-1/6 under constant mixing with a suitable stirrer (approx. 300 rpm). Mix thoroughly for approx. 3 – 5 minutes to a lump free mortar. Add the remaining 20% water

and mix for a further 2 minutes. Use a forced paddle mixer for preparing large quantities. Only mix as much material as can be used within the stated working life.

Application tools:
Hand trowel, steel lath, hand smoother, rubbing sponge.

Application by hand:
Apply INDUCRET-BIS-1/6 on prepared substrate to the desired thickness. Pre-fill pores and cavities by troweling or brusting.
After the required waiting time smooth the surface. Do not rework surface with a wetted brush or trowel. For a smooth transition in the repaired surface it is possible to rub with a dry sponge.

Wet application with spray equipment:
When spraying in wet form, a bonding slurry is not required. The substrate must have a matt damp surface after thorough saturation with water. After mixing, the material is applied to the substrate with appropriate spray equipment using a MAWO-nozzle. To ensure even coverage, an industrial compressor is required (min. 5m^3 air/5 bar pressure).

Pump system PFT:
PFT MULTIMIX batch mixer combined with
PFT N 2 FC 400
Conveying pump/ Rotor stator D8–1.5
25mm diameter mortar hose
Spray gun with 35/10mm nozzle (MAWO)

Pump system Inotec:
inoMIX ZM 80 turbocharged compulsory mixer combined with
inoBEAM F21 light feeding pump/Rotor stator D8–1.5
25mm diameter mortar hose
Spray gun with 35/10mm nozzle (MAWO)

Material application:
Through introduction of compressed air at the spray nozzle, the material should exit the nozzle in a uniform circular pattern. During the first spray coat application, blow holes, honeycombs, voids behind the rebar, irregularities in the wall, etc, should be filled and evened out. The second spray coat should be used to build up desired material thickness, which can then be finished with proper smoothing methods.

Material consumption (finished mix):
Approx. 1.6 kg/m^2/mm coat thickness,
approx. 1.0 litre/Mix = 1.95 kg

Curing and protection:
Protect the surface for at least one day after application of INDUCRET-BIS-1/6 using suitable measures (e.g. covering with polythene) against rapid drying out resulting from direct sunlight, draughts and/or high temperature fluctuations. After waiting for at least one day further suitable surface protection systems can be applied/carried out.

Health and safety:
INDUCRET-BIS-1/6 contains cement that forms an alkaline reaction with moisture. Therefore contact with the eyes and skin is to be avoided and mortar splashes are to be immediately and thoroughly washed off with plenty of water. Seek medical attention from an eye specialist when contact with eyes occures. Store INDUCRET-BIS-1/6 out of the reach of children.

Important advice:
- Protect areas not to be treated from the effects of INDUCRET-BIS-1/6.
- Cover with suitable sheeting to protect against rain.
- Building substrates and ambient temperatures below +20 °C delay setting times and above +20 °C accelerate setting times.
- Only use water of drinking quality when mixing INDUCRET-BIS-1/6. Do not add additional water or powder to material which has begun to stiffen in an attempt to restore original consistency. This can sesult in inadequate bonding.

INDUCRET®-BIS-1/6

- 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.

Please observe a valid EU safety data sheet.

GISCODE: ZP 1

This technical data sheet is a translation from German and does not consider local building codes or legal requirements. It shall be used as general reference for the product. Legally binding is only the latest German technical data sheet or the latest data sheet from one of our foreign subsidiaries inside their sales territory.