

INDUCRET BIS 5/40

Repair Mortar for Voids from 5-40mm, maximum grain-2mm

Properties:

INDUCRET-BIS-5/40 is an anti-sag repair mortar for voids from 5 - 40 mm with the following properties:

- A cementitious repair mortar of mortar group M2 for vertical and horizontal 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 CO₂.
- Cures with low shrinkage and free from cracks even under dynamic loading and has a high resistance to carbonating.

INDUCRET-BIS-5/40 is a system component and is only to be used in conjunction with INDUCRET-BIS-0/2.

Technical data:

Colour:	cement grey
Basis:	cement
Components:	1
Particle size:	up to 2 mm
Bulk density:	1.6 kg/dm ³
Wet density:	2.1 kg/dm ³
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. 14N/mm ² 7 days approx. 50N/mm ² 28 days approx. 60N/mm ²
Flexural strength:	24 hours approx. 4N/mm ² 7 days approx. 8N/mm ² 28 days approx. 9N/mm ²

Purpose:

INDUCRET-BIS-5/40 is used as an anti-sag re-profiling mortar for vertical, horizontal and overhead areas for voids up to 40 mm. Use for concrete restoration areas under dynamic load (e.g. under roadbeds and concrete parapets).

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-5/40 exposed steel reinforcement must be treated with INDUCRET-BIS-0/2 corrosion protection according to product instructions. Cementitious surfaces must be solid with a good grid 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). Surface preparation is necessary such as e.g. grit or shot blasting, high-pressure water jetting, scabbling. The substrate is to be intensively pre-wetted but during application of INDUCRET-BIS-0/2 the relevant substrate may however only be matt damp.

Average surface tensile strength: min. 1.5 N/mm²

Product preparation:

1. Production of the repair mortar:
 - INDUCRET-BIS-5/40 = 25.0 kg
 - Water = 3.5 – 3.75 litres

Fill a mixing vessel with up to 80% of the above mentioned water quantity. Add the required quantity of INDUCRET-BIS-5/40 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% of 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, wood float, steel lath, hand smoother, rubbing board.

Application by hand:

INDUCRET-BIS-5/40 may only be used in combination with the bonding agent INDUCRET-BIS-0/2.

Bonding agent:

Brush apply INDUCRET-BIS-0/2 with a hard broom onto the prepared matt damp substrate ensuring complete coverage and pore filling.

Subsequent application of INDUCRET-BIS-5/40 must be wet in wet with the bonding agent. Spread INDUCRET-BIS-5/40 onto the fresh bonding agent to the required thickness with a suitable tool. Finish by compacting the mortar and smoothing.



**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. 5m³ 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)

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. 1.8kg/m²/mm thickness
Approx. 1.0 litre/mix = 2.13 kg

Curing and Protection:

Protect the surface for at least one day after application of INDUCRET-BIS-5/40 using suitable measures (e.g. covering with polythene) against rapid drying out resulting from direct sunlight, draughts and/or high temperature fluctuations.

Health and safety:

INDUCRET-BIS-5/40 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 occurs. Store INDUCRET-BIS-5/40 out of the reach of children.

Advice:

- Protect areas not to be treated from the effects of INDUCRET-BIS-5/40.
- 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-5/40. Do not add additional water or powder to material which has begun to stiffen in an attempt to restore original consistency. This can result in inadequate bonding.
- Applications that are not clearly explained in this technical data sheet may only be carried out after consultation with and written confirmation from Equus Industries Ltd.

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