



Technical Data Sheet

INDUFLOOR®-IB3070

Art.-No. 5 55037

Cementitious, two-component commercial floor coating

Description:

INDUFLOOR-IB3070 is a 2-component, polymer-modified, cement based waterproof flooring system designed to produce a highly abrasion resistant top coating.

Primary Uses:

INDUFLOOR-IB3070 is used as a waterproof floor coating on concrete or cement-based screeds such as industrial and commercial floors, loading ramps, multi-storey car parks and garages.

Advantages:

- For interior and exterior use
- Hydraulically curing
- Permits early trafficking
- Resistant to UV and ageing
- Resistant to frost and de-icing salts
- Vapour permeable
- High resistance to wear and abrasion
- Impermeable to water

Typical Properties:

	Liquid component	powder component
Basis:	dispersion	powder
Colour:	white	grey
Mixing ratio:	1 part by weight	4.0 parts by weight
Packaging:	6 kg	24 kg

Combined product

Mixing time:	approx. 2-3 minutes
Density of fresh mortar:	approx. 2.0 kg/dm ³
Pot life *:	approx. 45 minutes
Pot life +35° C:	approx. 30 minutes
Substrate/ application temp.:	+5° C to +35° C
Tensile adhesion strength:	approx. 1.5 N/mm ² after 28 days

Flexural strength: approx. 11 N/mm²
after 28 days

Compressive strength: approx. 45 N/mm²
after 28 days

Abrasion resistance according to
 DIN EN 13813: approx. 8,8 cm³/50 cm²
 Classification of
 DIN 13813: EN 13183
 CTC50-F11-B1,5-A9

Shore D hardness according to
 DIN 53505: approx. 90

Water vapour evaporation rate/
 coefficient, μ: approx. 189

Application / material consumption:

Exposure / load	Recommended minimum consumption per application	Recommended minimum consumption total	Dry film thickness
Low	2.0 kg/m ²	4.0 kg/m ²	Approx. 2 mm
Medium	3.0 kg/m ²	6.0 kg/m ²	Approx. 3 mm
High	3.5 kg/m ²	7.0 kg/m ²	Approx. 3.5 mm

Consider higher material consumption on uneven substrates.

* Loading (at +20° C and 60% relative humidity)

- Foot traffic after approx. 12 hours
- Traffic with soft tyres (axle load <2 tonnes) after 24 hours

Application Procedures:

Condition of the substrate:

The substrate should be mineral-based and have a minimum strength of 25 N/mm² as well as a tensile adhesion strength of >1.0 N/mm². Furthermore the substrate must be solid, load-bearing, free from

INDUFLOOR®-IB3070

adhesion inhibiting material and be free from cavities (>10 mm), voids and gaping cracks. Open up dynamic cracks and close with a suitable material. Hairline cracks or static cracks <0.1 mm may be overcoated with INDUFLOOR-IB3070 and require no pre-treatment.

Reaction resin coatings may not be overcoated with INDUFLOOR-IB3070.

Substrate preparation:

The substrate is prepared by high pressure water jets (min. 250 bar) with a rotating spray head/nozzle. All adhesion inhibiting materials are to be removed in order to achieve an open-pored and porous surface. Firmly bonded adhesion inhibiting substances are to be removed with suitable measures such as planing, scabbling etc. Carry out joint detailing with INDUFLEX-VK6060 in accordance with the technical data sheet. For substrates damaged by de-icing salts abrade back to a neutral area using suitable measures such as e.g. scabbling, planing. Pre-wet substrates before coating, so that at the time of application they are matt damp but avoid puddle formation.

Mixing:

Mix INDUFLOOR-IB3070 at the given mixing ratio of 1:4. Approx. 80% of the liquid component is placed into a clean mixing bucket and mixed with the powder component to a homogenous lump free consistency. Subsequently add the remaining liquid. A mix time of approx. 2 - 3 minutes is required with a mechanical mixer (approx. 500 – 700 rpm). The addition of extra water is not permitted. Strictly apply in a minimum of two applications by trowel or spraying (e.g. Inomat M8). The second coat may only be applied once the first coat will no longer become damaged (approx. 4 – 6 hours). Avoid application thicknesses of more than 4 kg/m² in a single layer. Protect the coating during the first 24 hours through suitable protective measures against weather influences such as e.g. strong sunlight, wind etc and from mechanical damage/exposure.

Cleaning of tools:

Clean tools whilst in the fresh state with water, softened on material with INDU-IB Cleanser.

Storage & Shelf life:

Powder Component: cool and dry, 6 months

Liquid Component: Frostfree, 12 months in the original unopened packaging, use opened packaging promptly

Important advice: the liquid component is sensitive to frost. When the ambient temperature is > 35° C the materials must be stored in acclimatised rooms.

Advice:

- Protect areas not to be treated with INDUFLOOR-IB3070 from its effects.
- INDUFLOOR-IB3070 is suitable for bridging small static shrinkage/hairline cracks up to 0.1 mm. It is not suitable for bridging large or dynamic cracks.
- At higher temperatures the surface may be slightly tacky. In this case we recommend post-treatment with water in order to guarantee a complete hydration.
- Varying substrate porosity, increased relative humidity, early exposure to water as well as natural variation in raw materials may lead to a light clouding on the hardened coating (white discolouration).
- During setting the waterproofing may not be exposed to water. Water penetrating from the rear can lead to delamination.
- Direct contact with metals such as copper, zinc and aluminium is to be excluded through pore deep priming. Pore deep priming is produced with two coats of INDUFLOOR-IB1225. Thoroughly saturate the substrate, cleaned with INDU-IB Cleanser, with the first coat. After waiting for approx. 3 - 6 hours apply the second coat and broadcast with 0.2 – 0.7 mm particle size quartz sand. Consumption approx. 800-1000 g/m².

Please observe a valid EU health and safety data sheet.