



## Technical Data Sheet

# INDUFLOOR®-IB1010

## Concrete impregnator

**Art.-No. 5 55000**

### Properties:

INDUFLOOR-IB1010 is a two component epoxy resin with the following properties:

- solvent based
- low viscosity
- binds dust and consolidates
- watertight
- resistant to diluted alkalis, acids, aqueous salt solutions, lubricants and fuels
- tendency to yellowing
- water vapour permeable.

### Areas of application:

INDUFLOOR-IB1010 is used:

- for impregnating and consolidating cement-based substrates such as concrete, cement-based screeds, plaster and similar. E.g. concrete roadways, parking lots above and below ground, industrial floors, airport halls, mechanics workshops etc.

### Technical Data:

Basis:	two component epoxy resin
Colour:	transparent
Viscosity:	approx. 50 - 60 seconds at +23° C in a 2 mm flow cup
Solids content:	approx. 40%
Mixing ratio:	100:15 parts by weight
Density:	approx. 0,9 ± 0,02 g/cm <sup>3</sup> at +23° C
Pot life:	approx. 20 h at +10° C approx. 10 h at +20° C approx. 5 h at +30° C
Application temperature:	min. +8° C, max.+30° C
Foot traffic after:	approx. 1 h at +23° C
Overcoat after:	min. 4 h, max. 24 h at +23° C with INDUFLOOR-IB2380
Fully cured:	after approx. 7 days at +23° C

Min. cure temperature:	+8° C
Flash point:	above +21° C
Ignition group:	G2 VDE 0165
MEL value:	440 mg/m <sup>3</sup> of air

### Surface preparation:

The area to be treated must be:

- dry, firm, sound and have a good grip
- free from separating and adhesion inhibiting substances such as dust, laitance, grease, oil, rubber marks, paint residues and similar
- protected from the effects of moisture from the rear.

Use suitable means to prepare the substrate dependent on its condition such as e.g. sweeping, vacuuming, brushing, planing, scabbling, grit-blasting, shot-blasting, high pressure water jetting.

The following criteria are to be observed dependent on the particular substrate:

### Cementitious surfaces:

- Concrete quality: min. C20/25
- Age of substrate: min. 3 days
- Screed quality: min. EN 13813 CTC25-F4
- Plaster quality: PIII
- Age: min. 28 days
- Tensile adhesion strength: = 1.5 N/mm<sup>2</sup>  
(plaster 0.8 N/mm<sup>2</sup>)
- Residual moisture: < 6.0% (carbide hygrometer)

### Product preparation:

Components A (resin) and B (hardener) are delivered in a predetermined mixing ratio. Tip component B into component A. Ensure that the hardener drains completely from its container. Mixing of the components is to be carried out with a suitable mixer at approx. 300 rpm (e.g. drill with paddle). It is important to also stir from the sides and the bottom to ensure that the hardener is

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evenly dispersed. Stir until the mix is homogenous (free from striations). The minimum temperature during mixing should be +15° C. Do not use mixed material directly from the packaging. Decant the material into a clean container and mix through thoroughly once again.

## Notes:

INDUFLOOR-IB 1010 does not effect the hydration (setting) of cement. It can therefore be applied to green concrete (approx. 3 days old). Furthermore the material can be applied to substrates that are still damp (< 6% residual moisture). However in both cases the depth of penetration is restricted.

## Method of application / consumption:

**Impregnation / consolidation:**

Apply INDUFLOOR-IB 1010 in two or three coats by spraying, brushing or roller whilst the previous coat is still wet.

Consumption: approx. 150 – 400 g/m<sup>2</sup> per coat (dependent on the porosity of the substrate).

## Cleaning & Equipment Maintenance:

Thoroughly clean tools immediately after use with INDU-IB Cleanser.

## Packaging:

INDUFLOOR-IB1010 is available in 10 kg and 20 kg containers. Components A and B are delivered in a predetermined mixing ratio.

## Storage & Shelf Life:

24 months when stored dry and cool above +10° C in the original unopened packaging.

## Health and safety:

Once cured INDUFLOOR-IB1010 is considered harmless. The hardener (B) component is corrosive. Current relevant legislation should be followed at all times when working with epoxies, e.g. hazmat transportation, etc. For more information please consult [www.plasticseurope.org](http://www.plasticseurope.org).

## Important advice:

- The application temperature may not fall below +10° C nor exceed +40° C.
  - Higher temperatures shorten the pot life. Lower temperatures increase the pot life and curing time. Material consumption is also increased at lower temperatures.
  - To increase pot life/working time at higher temperature store material in a cool environment above +10° C and only expose to warm temperature shortly before mixing.
  - **The material contains solvent. When working with the product in confined spaces ensure that there is adequate ventilation and extraction.**
  - When the exposure limits are exceeded wear a respirator e.g. full mask required. Gas filter A (brown). When spraying the material a combination filter with particulates filter class P2 is required. When unsure and in enclosed spaces (e.g. in silos) use an independent breathing apparatus.
  - The bond between the individual coats to one another can be heavily impeded through the influence of dampness or contamination between the applied coats.
  - When longer waiting times occur after application of the coats or where surfaces already treated with liquid resin must be re-coated after a long time, the surface must be well cleaned and abraded, after which a new impregnation/consolidation should be undertaken.
  - Protect surface protective systems from moisture (e.g. rain) for approx. 4 – 6 hours. Dampness produces a white discolouration and/or stickiness on the surface and can impede the cure. Discoloured and/or sticky surfaces should be taken off e.g. by abrading and renewed.
  - Impregnated or consolidated surfaces lose their efficacy after two to three years. They must then be renewed as described above.
  - Due to different porosities of cement-based substrates a uniform appearance cannot be guaranteed.
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- 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.
- Cured product residues are to be disposed of under waste disposal classification 57123 "Epoxy resin".

Please observe a valid EU safety data sheet.

GISCODE: RE 3