



Technical Data Sheet

INDUFLOOR®-IB3310

Art.-No. 5 55016

Chemical protection – WHG (water pollution control)

Properties:

INDUFLOOR-IB3310 is a two component, solvent free, pigmented epoxy resin with the following properties:

- resistant to organic and inorganic acids and alkalis, mineral oils, petrol and solvents
- formulated to take heavy mechanical loading (direct vehicular traffic) and to be electrically conductive
- fulfils the technological paint requirements for use as a coating in paint shops e.g. in the automobile industry
- due to its special material composition it tends to have a bumpy surface once cured, dependent on substrate preparation, method of application and climatic conditions, but however completely fulfils the relevant approved test criteria.

Areas of application:

INDUFLOOR-IB3310 is used as a coating for reinforced concrete, concrete, rendered and screeded surfaces in production areas and storerooms for liquids hazardous to water courses according to paragraph 19 g WHG (water pollution control). Furthermore for paint shops, computer rooms, hospitals, gas transfer stations.

INDUFLOOR-IB3310 is used as a component in the WHG-Systems (water pollution control).

==> INDUFLOOR-IB-GWS 2

==> INDUFLOOR-IB-GWS 3

Technical Data:

Basis: two component epoxy resin
Colours: approx. RAL 7032, 7030
Viscosity: approx. 3.300 mPa·s ± 15%
at +23° C
Density: approx. 1,39 g/cm³
at + 23° C
Mixing ratio: 100:24 parts by weight
Pot life: approx. 35 minutes
at + 23° C
Application temperature: min. +8° C at max. +30° C

Minimum cure temperature: +8° C
Foot traffic after: approx. 16 hours at +20° C
Overcoat after: approx. 16 hours at +20° C
Fully cured: after 7 days at +23° C
Abrasion: 4 cm³/50 cm²
to DIN 53 401
Adhesion strength: > 1,5 N/mm²
concrete failure
(after temperature cycles)

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 moisture ingress from the rear.

Use suitable means to prepare the substrate dependent on its condition such as e.g. sweeping, vacuuming, brushing, planing, scabbling, sand blasting, high pressure water jetting or shot blasting. The following criteria are to be observed dependent on the particular substrate:

Cementitious surfaces:

- Concrete quality: min. C20/25
- Screed quality: min. CT-C25-F4
- Tensile adhesion strength: $\geq 1,5$ N/mm²
- Residual moisture: < 4%
- Plaster quality: PIIIa / PIIIb
- Tensile adhesion strength: approx 0.8 N/mm²
- Residual moisture: < 4%

Product preparation:

Components A (resin) and B (hardener) are delivered in a predetermined mixing ratio. Tip component B into

INDUFLOOR®-IB3310

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 evenly dispersed. Stir until the mix is homogenous (free from striations); mixing time approx. 5 minutes. 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.

Before application to vertical or sloping surfaces it is recommended that INDU-FibreFiller is added. The addition rate is between 1 and 2% by weight.

Production of levelling/scratch coat:

INDUFLOOR-IB1225:	1.0 part by weight
Quartzsand:	1.0 part by weight (grain size: 0.1 – 0.6 or 0.2 – 0.7 mm diameter)
INDU-FibreFiller:	approx. 1.5 to 2.0 by percentage

The quartz sand is mixed into the previously homogeneously prepared and decanted resin and hardener components of the INDUFLOOR-IB1225 binder. Ensure that the liquid and solid components are evenly mixed. Before application to vertical or sloping surfaces it is recommended that INDU-FibreFiller is added to the levelling/scratch coat. The addition rate is between 2% by weight dependent on the slope.

Method of application/consumption:

System II: non conductive construction

1. Prepare substrate as above.
2. Produce a coved fillet in the wall/floor area (radius: approx. 5 cm):
 - 2.1 Prime the coved fillet area: apply INDUFLOOR-IB1225 in one application by brush or roller. Consumption: approx. 40 g/m (fillet radius approx. 4 - 5 cm).

- 2.2 Installation of the coved fillet: Apply the fillet mortar INDUFLOOR-IB4010 into the wet primer layer in one application. Consumption: approx. 1.1 kg/m.
3. Primer application: Close surface pores with one application of INDUFLOOR-IB1225. Consumption: approx. 300 – 500 g/m².
 - 3.1 Immediately evenly cover the wet primer by broadcasting kiln dried quartz sand size 0.2 – 0.7 mm. Consumption: approx. 1.0 kg/m². Once cured thoroughly remove unbonded sand.
4. Possible situation: (Levelling of voids, large pores and unevenness). Apply a scratch coat of the mixed mortar (see above) in a single application. Consumption of finished mortar: approx. 1.6 kg/m²/mm thickness.
 - 4.1 Sprinkle the wet scratch coat with kiln dried quartz sand of grain size 0.2 – 0.7 mm. Consumption: approx. 1.0 kg/m². Once cured thoroughly remove unbonded sand.
 - 4.2 In order to avoid the formation of bubbles in the following finish coat seal the sanded scratch coat with INDUFLOOR-IB1225. Consumption: approx. 0.3 – 0.5 kg/m².
 - 4.3 Broadcast the wet sealing coat with kiln dried quartz sand of grain size 0.2 – 0.7 mm. Consumption: 0.8 – 1.0 kg/m². Once cured thoroughly remove unbonded sand. After a waiting time of minimum 16 hours/maximum 24 hours apply the finish coat of INDUFLOOR-IB3310.
5. Installation of finish coat: Trowel apply one application of INDUFLOOR-IB3310. Thickness: approx. 2.0 mm. Consumption: min. 2.5 kg/m².
 - 5.1 To remove air, roll a spiked roller through the applied finish coat after a waiting time of 10 – 15 minutes at +20° C to avoid the formation of bubbles.

Notes:

Before application to vertical or sloping surfaces it is recommended that INDU-ThixPowder or INDU-FibreFiller is added. The addition rate is between 1 and 2% by weight.

INDUFLOOR®-IB3310

System III: conductive construction with conductive lacquer

1. Prepare substrate as above.
2. Produce a coved fillet in the wall/floor area (radius: approx. 5 cm):
 - 2.1 Prime the coved fillet area: apply INDUFLOOR-IB1225 in one application by brush or roller. Consumption: approx. 40 g/m (fillet radius approx. 4 - 5 cm).
 - 2.2 Installation of the coved fillet: Apply the fillet mortar INDUFLOOR-IB4010 into the wet primer layer in one application. Consumption: approx. 1.1 kg/m.
3. Primer application: one pore-tight coat of INDUFLOOR-IB1225. Consumption: approx. 300 – 500 g/m².
 - 3.1 Immediately cover the wet primer by broadcasting evenly cover the wet primer by broadcasting kiln dried quartz sand size 0.2 – 0.7 mm. Consumption: approx. 0.8 - 1.0 kg/m². Once cured thoroughly remove unbonded sand.
4. Possible situation: (Levelling of voids, large pores and unevenness). Apply a scratch coat of the mixed mortar (see above) in a single application. Consumption of finished mortar: approx. 1.6 kg/m²/mm thickness.
 - 4.1 Sprinkle the wet scratch coat with kiln dried quartz sand of particle size 0.2 – 0.7 mm. Consumption: approx. 0.8 - 1.0 kg/m². Once cured thoroughly remove unbonded sand.
 - 4.2 In order to avoid the formation of bubbles in the following finish coat seal the sanded scratch coat with INDUFLOOR-IB1225. Consumption: approx. 0.3 – 0.5 kg/m².
 - 4.3 Broadcast the wet sealing coat with kiln dried quartz sand of particle size 0.2 – 0.7 mm. Consumption: 0.8 – 1.0 kg/m². Once cured thoroughly remove unbonded sand. After a waiting time of minimum 16 hours/maximum 24 hours apply the conductive coat.
5. Installation of the conductive coat, consisting of:
 - copper bands: INDU-ConductiveStrip (approx. 5/5 m grid). Conductive lacquer: INDUFLOOR-IB2115 applied by roller. Consumption: approx. 200 g/m².

6. Finish coat application: Trowel apply one application of INDUFLOOR-IB3310. Thickness: approx. 2.0 mm. Consumption: min. 2.5 kg/m².
7. To remove air, roll a spiked roller through the applied finish coat after a waiting time of 10 – 15 minutes at +20° C to avoid the formation of bubbles.

Notes:

Before application to vertical or sloping surfaces it is recommended that INDU-FibreFiller is added. The addition rate is between 1 and 2% by weight.

Cleaning & Equipment Maintenance:

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

Packaging:

INDUFLOOR-IB3310 is available in 30 kg containers. Components A and B are delivered in a predetermined mixing ratio. Other pack sizes on request.

Storage & Shelf Life:

18 months when stored dry and cool above +10° C in the original unopened packaging. Possible crystallisation can be reversed within approx. 2 hours by warming on a water bath at +50° C to +60° C after which the product is useable again.

Health and safety:

Once cured INDUFLOOR-IB3310 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

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.
-

INDUFLOOR®-IB3310

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.
- Colour: Minor colour variations due to production plants and raw material fluctuations are unavoidable. This should be considered when applying coatings. Neighbouring sections should be completed with the same production units (see batch number on the packaging).
- 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 between 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 sealing coat should be applied free from pores. It is not sufficient simply to overcoat.
- Protect surface protective systems from moisture (e.g. rain) for approx. 4 – 6 hours after application. 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.
- 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.
- Disposal key: Liquid product residues: EAK 08 01 11 paint and lacquer residues that contain organic solvents or other hazardous materials. Cured product residues: EAK 17 02 03 plastics.

Please observe a valid EU safety data sheet.

GISCODE: RE 1