



Technical Data Sheet

INDUFLOOR®-IB3310

Chemical protection – WHG (conductive)

Art.-No. 2 03528

CE 1119	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold 07 5 55016	
EN 15042 INDUFLOOR-IB3310 Surface protection product - Coating	
Principle 5.1/6.1/8.2	
Capillary water absorption and water permeability	w < 0.1 kg/m ² × h ^{0.5}
Water vapour permeability	Class II
Tensile adhesion strength by pull-off test	≥ 1.5 (1.0) N/mm ²
Abrasion resistance	Loss in mass ≤ 3000 mg
Impact resistance	Class III
Resistance to strong chemical attack	Loss in hardness < 50%
Reaction to fire	Class E
Hazardous substances	In compliance with 5.3 of EN 15042



shops, computer rooms, hospitals, gas transfer stations.

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

==> INDUFLOOR-IB-GWS 3

Please note: To comply with the laws, the installation of WHG coatings requires WHG certified installers according to paragraph 62 of the WHG (water resources act). General technical approval is mandatory. Variations from the system build-up from the general technical approval needs a suitability test procedure in accordance with paragraph 7 section 4 of the VAWs (ordnance on installations handling materials hazardous to water) from a competent body.

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
- resistant to plasticizers (car tyres)
- 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
- temperature resistant up to min. +70° C for short term exposure

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, LAU areas of the German WHG (water resources act). Furthermore for paint

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/cm ³ at + 23° C
Mixing ratio:	100:24 parts by weight
Pot life:	approx. 35 mins at + 23° C
Application temperature:	min. +8° C up to max. +30° C
Minimum cure temperature:	+8° C
Foot traffic after:	approx. 16 hrs at +20° C
Overcoat after:	approx. 16 hrs at +20° C
Fully cured:	after 7 days at +23° C
Abrasion:	4 cm ³ /50 cm ² to DIN 53 401
Adhesion strength:	> 1.5 N/mm ² concrete failure (after temperature cycles)

Cleaning:

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

INDUFLOOR®-IB3310

Packaging:

INDUFLOOR-IB3310 is available in 1 kg, 15 kg and 30 kg containers. Components A and B are delivered at 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.

Substrate preparation:

The area to be treated must be:

- dry, firm, sound and have a good key
- free from separating and adhesion inhibiting substances such as dust, laitance, grease, oil, rubber marks, paint residues and similar
- protected from moisture penetration 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 jet washing (≥ 800 bar), shot blasting. DIN EN 14879-1 is decisive regarding substrate assessment and preparation.

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%
- Render quality: PIIIa / PIIIb
- Tensile adhesion strength: approx 0.8 N/mm²
- Residual moisture: < 4%

Product preparation:

Components A (resin) and B (hardener) are delivered at a predetermined mixing ratio. Tip component B into component A. Ensure that the hardener drains

completely from its container. Mix the components together 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 streaks); 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 homogenously 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 approx. 2% by weight dependent on the slope.

Method of application/consumption:

Conductive system construction

1. Prepare the substrate as above.
2. Production of a covered fillet at the wall/floor junction (radius: approx. 5 cm):
 - 2.1 Priming the covered fillet area: Brush or roller apply INDUFLOOR-IB1225 in one application. Consumption: approx. 40 g/m (covered fillet radius approx. 4 - 5 cm).
 - 2.2 Installing the covered fillet: Apply the covered fillet mortar e.g. INDUFLOOR-IB4010 into the wet primer in one operation. Consumption: approx. 1.1 kg/m (covered fillet radius approx. 4 - 5 cm).
3. Primer application: Apply INDUFLOOR-IB1225 in on coat ensuring all pores are filled. Consumption:

INDUFLOOR®-IB3310

min. 300 - 500 g/m².

- 3.1 Broadcast the fresh primer with dried kiln quartz sand of grain size 0.2 - 0.7 mm. Consumption: approx. 0.8 - 1.0 kg/m². Once the primer has hardened carefully remove all non-bound quartz sand.
4. Option: (levelling voids, larger pores and irregularities). Apply the mixed scratch coat (see above) in one application. Consumption of mixed scratch coat: approx. 1.6 kg/m²/mm thickness.
- 4.1 Broadcast the fresh primer with dried kiln quartz sand of grain size 0.2 - 0.7 mm. Consumption: approx. 0.8 - 1.0 kg/m². Once the primer has hardened carefully remove all non-bound quartz sand.
- 4.2 To avoid the formation of bubbles in the following top coat, seal the sanded scratch coat with INDUFLOOR-IB1225. Consumption: approx. 0.3 - 0.5 kg/m².
- 4.3 Broadcast the fresh sealing coat with dried kiln quartz sand of grain size 0.2 - 0.7 mm. Consumption: approx. 0.8 - 1.0 kg/m². Once the primer has hardened carefully remove all non-bound quartz sand. After a waiting time of min. 16 hours/max. 24 hours install the conductive layer.
5. Applying the conductive layer, consisting of:
Copper strips: INDU-ConductiveStrip (in an approx. 5/5 m grid)
Conductive coating: INDUFLOOR-IB2115 applied in one coat with a roller.
Consumption: approx. 200 g/m².
6. Application of the top coat: Trowel apply INDUFLOOR-IB3310 in one application. Thickness: approx. 2.0 mm. Consumption: min. 2.5 kg/m².
- 6.1 After waiting for 10 - 15 mins roll through the top coat with a spiked roller to de-aerate it and prevent 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.

Health & Safety:

Once cured INDUFLOOR-IB3310 is considered harmless. Note: code of practice for handling epoxies

distributed by the building industry professional association www.bgbau.de or www.gisbau.de.

Important advice:

- As a rule SCHOMBURG products are supplied in working packs i.e. at a predetermined mixing ratio. With deliveries in large containers, part quantities will need to be weighed using scales. Always thoroughly stir the filled components and only then blend with the second component. This is to be carried out with a suitable rotary mixer e.g. Polyplan/Ronden mixing paddle or similar. In order to exclude mixing errors, decant into a clean container and remix. The mixing speed should be 300 – 400 rpm. Ensure that no air is entrained. Higher speeds drag unnecessary air quantities into the product whilst lower speeds do not result in a good blend or require too long a mix time (pot life). The temperature of the components should be at a minimum of +15° C. This is also applicable to any fillers, e.g. sand, to be mixed in. The addition of any fillers is carried out after both liquids have been blended. Afterwards tip the completely mixed material immediately onto the prepared substrate and promptly thoroughly spread in accordance with the instructions in the technical data sheet. Always stir one component products before using.
- 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 life at higher temperatures, store material in a cool environment above +10° C until ready for use. Only expose to warm temperatures just before mixing.
- The bond between the individual coats can be heavily impeded through the influence of moisture or contamination between successive applications.
- If there is a long time period between the application of coatings or where surfaces already treated with liquid resin must be re-coated after a long time period, thoroughly clean and abrade the surface, followed by a new sealing coat free from pores. It

INDUFLOOR®-IB3310

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.
- Cured product residues can be disposed of under waste disposal key AW 150106.

Please observe a valid EU safety data sheet.

Paint products directive (2004/42/EC)

Group lb: j

Level 1 (2007): max. 550 g/l

Level 2 (2010): max. 500 g/l

INDUFLOOR-IB3310 contains: < 500 g/l

GISCODE: RE 1