



Technical Data Sheet

INDUFLOOR®-IB3311

Chemical protection - WHG

Art.-No. 2 03529

SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold 07 5 55034	
EN 1504-2 INDUFLOOR-IB3311 Surface protection product - Coating	
Principle 5.1/6.1	
Capillary water absorption and water permeability	$w < 0.1 \text{ kg/m}^2 \times t^{0.5}$
Tensile adhesion strength by pull-off test	$\geq 1.5 \text{ (1.0) N/mm}^2$
Abrasion resistance	Loss in mass $\leq 3000 \text{ mg}$
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 1504-2



procedure in accordance with paragraph 7 section 4 of the VAWs (ordnance on installations handling materials hazardous to water) from a competent body.

Typical Data:

Basis:	2-comp. epoxy resin
Standard colours:	approx. RAL 7032, 7030
Viscosity:	approx. 3,300 mPas $\pm 1.5\%$ 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/substrate temperature:	min. +8° C up to max. +30 °C
Minimum cure temp:	+8 °C
Foot traffic after:	approx. 16 hrs at +20 °C
Overcoat after:	approx. 16 hrs at +20 °C
Through cured:	after approx. 7 days at +23 °C

Properties:

INDUFLOOR-IB3311 is a solvent free, pigmented two-component epoxy resin with the following properties:

- resistant to organic and inorganic acids and alkalis, mineral oils, petrols and solvent
- resistant to plasticizers (car tyres)
- high mechanical resistance (can be driven over directly)
- crack bridging up to 0.2 mm
- temperature resistant up to min. +70° C for short term exposure

Areas of application:

INDUFLOOR-IB3311 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).

INDUFLOOR-IB3311 is used as a system component of the WHG system INDUFLOOR-IB-GWS 2.

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

Technical Properties:

Abrasion resistance:	4 cm ³ /50 cm ² to DIN 53 401
Tensile adhesion:	$> 1.5 \text{ N/mm}^2$ concrete failure (after temperature cycling)

Cleaning:

Clean work tools carefully after use with INDU-IB-Cleanser.

Packaging:

INDUFLOOR-IB3311 is available in 30 kg containers. Component A and component B are supplied at a pre-determined mixing ratio. Other pack sizes are available on request.

Storage:

18 months when stored cool and dry in the original unopened containers above +10° C. It is possible that crystals may appear but this can be rectified within 2 hours by warming in a water bath at +50° C to +60° C after which the material can be used once again.

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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, planing, scabbling, sand blasting, high pressure jet washing (≥ 800 bar), shot blasting.

DIN EN 14879-1 is decisive regarding substrate assessment and preparation.

Dependent on the particular substrate the following criteria must also be fulfilled:

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.

Prior to application on vertical or sloping surfaces it is recommended that INDU-FibreFiller is added. The addition rate lies 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 weight

Mix the quartz sand 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:

1. For substrate preparation see above.
2. Production of coved fillets at the wall/floor junction (radius: approx. 5 cm).
 - 2.1. Primer for coved fillet area: INDUFLOOR-IB1225 is applied in one operation by brush or roller. Consumption: approx. 40 g/m (with a coved fillet radius of approx. 4-5 cm).
 - 2.2. Installing the coved fillet: Apply the coved fillet mortar INDUFLOOR-IB4010 into the wet primer in one operation. Consumption: approx. 1.1 kg/m
3. Application of the primer: INDUFLOOR-IB1225 is applied pore-tight in one operation. Consumption: min. 300-500 g/m²
 - 3.1. Broadcast kiln dried quartz sand of particle size 0.2-0.7 mm into the wet primer. Consumption: approx. 1.0 kg/m². Once the primer has cured carefully remove the unbonded quartz sand.
4. Possible requirement: (Evening out voids, large pores and irregularities). Apply the prepared scratch coat mortar (see above) in one operation. Consumption of mixed scratch coat: approx. 1.6 kg/m²/mm thickness.
 - 4.1. Broadcast kiln dried quartz sand of particle size 0.2-0.7 mm into the wet scratch coat. Once the scratch coat has dried carefully remove the unbonded quartz sand.
 - 4.2. To avoid the formation of bubbles in the following finish coat, seal the sanded scratch coat with

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INDUFLOOR-IB1225. Consumption: approx. 0.3-0.5 kg/m².

- 4.3. Broadcast the wet seal coat with 0.2-0.7 mm kiln dried quartz sand. Consumption: approx. 0.8 – 1.0 kg/m². Once the seal coat has cured carefully remove the unbonded quartz sand. After a waiting time of min. 16 hours / max. 24 hours apply the INDUFLOOR-IB3311 finish coat.
5. Application of the finish coat: Trowel apply INDUFLOOR-IB3311 in one operation. Thickness: approx. 2.0 mm. Consumption: min. 2.5 kg/m²
- 5.1. In order to de-aerate the applied INDUFLOOR-IB3311 finish coat, roll the surface with a spiked roller after waiting 10-15 minutes, to avoid the formation of air bubbles.

Notes:

Before applying to vertical or sloping surfaces it is recommended to add INDU-FibreFiller. The addition rate lies between 1 and 2% by weight.

Health & Safety:

Once cured INDUFLOOR-IB3311 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.

- Colour: Minor colour differences, caused by different production batches and raw material variation, are unavoidable. When applying coatings this should be considered. Neighbouring sections should be carried out with the same production batch (see batch number on the packaging).
- 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 coatings or if already treated surfaces are to be re-coated after a long time period, the surface must be thoroughly cleaned and abraded, followed by the application of a completely new pore free coat. It is not sufficient simply to overcoat.
- Surface protective systems must be protected for approx. 4 – 6 hours from dampness after application (e.g. rain, melt water). 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 disposal key AW 150106.

Please observe a valid EU safety data sheet.

Paint products directive (2004/42/EC):

Group I_b: j
Level 1 (2007): max. 550 g/l
Level 2 (2010): max. 500 g/l
INDUFLOOR-IB3311 contains: < 500 g/l

GISCODE: RE 1