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SCHOMBURG

Technical Data Sheet

ASODUR®-B3311 INDUFLOOR®-IB3311 Art.-No. 2 06408

Chemical protection

CE 1119

SCHOMBURG GmbH & Co. KG
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D-32760 Detmold
16
206408

EN 1504-2
ASODUR-B3311
Surface protection product – Coating

Principle 5.1/6.1

Capillary water absorption and water permeability	w < 0.1 kg/m² × h$^{-0.5}$
Tensile adhesion strength by pull-off test	≥ 1.5 (1.0) N/mm²
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 1504-2

- solvent free, pigmented, two component epoxy resin
- 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:

ASODUR-B3311 is used as a coating for reinforced concrete, concrete, rendered and screeded surfaces in production areas and storerooms for liquids hazardous to water courses.

Technical Data:

Basis:	two component epoxy resin
Standard colours:	≈ RAL 7032, ≈ RAL 7030
Viscosity:	approx. 3,300 mPa·s ± 15%
Density *):	approx. 1.39 g/cm³
Mixing ratio:	100:24 parts by weight
Ambient and substrate temperatures:	min. +10°C max. +35°C at max. 80 % relative humidity
Pot life*:	approx. 35 mins
Foot traffic after*:	approx. 16 hrs
Overcoat after*:	approx. 16 hrs
Fully cured*:	after 7 days
Tensile adhesion strength:	1.5 N/mm²
Cleaning:	Thoroughly clean tools immediately after use with ASO-R001.
Packaging:	30 kg containers Components A and B are delivered at a predetermined mixing ratio.
Storage:	Frostfree, cool and dry, ≥ +10 °C to +25 °C, 18 month in the original unopened packaging. Use opened packaging promptly. Advice: Where there is frequent temperature change, there can be crystallisation within the ASODUR-B3311. It is then necessary to warm the product in a water bath (+50°C to +60°C) for approx. 2 hours in order to be able to use it without restriction.

* The values refer to 23°C and 50% relative humidity.

ASODUR®-B3311

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.

Carry out substrate preparation with reference to DIN EN 14879-1:2005, 4.2 following.

Dependent on the condition of the substrate to be treated, use suitable methods to produce a structured, open textured surface e.g. high pressure water jetting, scabbling, shot blasting, planing etc. (Repair larger defects, cracks beforehand with a suitable product from the SCHOMBURG range).

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:	≥1.5 N/mm²
Age:	min. 28 days
• Render quality:	min. P IIIa / P IIIb
Tensile adhesion strength:	approx 0.8 N/mm²
Residual moisture:	< 4% (CM method)

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. 3 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 ASO-FF is added. The addition rate lies between 1 and 2% by weight.

Production of levelling/scratch coat:

ASODUR-GBM:	1.0 part by weight
Quartzsand:	1.0 part by weight
	(grain size: 0.1 – 0.6 mm diameter)
ASO-FF:	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 ASODUR-GBM binder. Ensure that the liquid and solid components are evenly mixed.

Method of application/consumption:
1. Substrate preparation beforehand
2. Production of coved fillets at the wall/floor junction (radius: approx. 5 cm).

2.1. Primer for coved fillet area: ASODUR-GBM is applied in one operation by brush or roller.
Consumption: approx. 40 g/lfm
(with a coved fillet radius of approx. 4-5 cm).

2.2. Installing the coved fillet: Apply the coved fillet mortar ASODUR-EMB into the wet primer in one operation.
Consumption: approx. 1.1 kg/lfm.

3. Application of the primer: ASODUR-GBM is applied pore-tight in one operation.
Consumption: min. 300-500 g/m².

3.1. Broadcast kiln dried quartz sand of particle size 0.1 - 0.6 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 per mm thickness.

4.1. Broadcast kiln dried quartz sand of particle size 0.1 - 0.6 mm into the wet scratch coat.
   Consumption: approx. 0.8 - 1.0 kg/m².
   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 ASODUR-GBM.
   Consumption: approx. 0.3-0.5 kg/m².

4.3. Broadcast the wet seal coat with 0.1 - 0.6 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. 12 hours apply the ASODUR-B3311 finish coat.

5. Application of the conductive layer:
   Lay the ASO-LB copper strips in a grid of size approx. 5 × 5 m then roller apply one coat of the ASO-LL conductive lacquer.
   Consumption: approx. 200 g/m².

6. Application of the finish coat: Trowel apply ASODUR-B3311 in one application.
   Thickness: approx. 2.0 mm.
   Consumption: min. 2.5 kg/m²

6.1. In order to de-aerate the applied ASODUR-B3311 finish coat, roll the surface with a spiked roller after waiting 10-15 minutes at +20 °C, to avoid the formation of air bubbles.

Important advice:

- As a rule, SCHOMBURG products are supplied in working packs i.e. at a mix ratio matched together. When supplied in large containers, part quantities must be weighed out using a balance. Always thoroughly stir the filled components and only then mix with the second component. This is to be executed with a suitable stirrer e.g. Polyplan/Ronden mixing paddle or similar. In order to exclude mixing errors, decant into a clean container and mix anew. The mixing speed should be approx. 300 rpm. Ensure that no air is mixed in. The temperature of the components should be minimum +15°C. This is also valid for any potential fillers to be mixed, e.g. sands. The addition of the fillers is only to occur once both liquid components have been blended. Afterwards place the completely mixed material immediately on to the prepared substrate and quickly and carefully spread out in accordance with the instructions in the technical data sheet. For applications by roller, it is recommended to use a short nap nylon paint roller (6 mm) with a textured polyamide cover or similar. Always thoroughly stir one component products before use.
- Higher temperatures shorten the pot life. Lower temperatures increase the pot life and setting time. Material consumption is also increased at lower temperatures.
- Colours: Small variations in colour, resulting from varying production batches and raw material fluctuations, are unavoidable. When applying coatings take this into consideration. Carry out neighbouring sections with the same production batch (same batch number on the packaging).
- The bond between individual coats can be heavily impeded by the penetration of moisture and contamination between the individual coats. Coating work requires a substrate temperature of at least 3 °C above the dew point temperature.

- If there is a long down time between individual coats or if already treated areas are to be renewed with liquid resins after a long period of time, then the old surface is to be well cleaned and thoroughly abraded. Afterwards carry out a completely new pinhole free coating.
- Resin products are surface protection systems and must be protected from moisture (e.g. rain, melt water) after their application for approx. 4–6 hours. Moisture produces a white discolouration and/or stickiness on the surface and can lead to interference in the curing process. Take off discoloured and/or sticky surfaces by e.g. planing or abrasive blast techniques and renew.
- Consumption quantities given are values determined by calculation without additions for surface roughness or absorption, levelling or residues in the containers. We recommend adding a calculated safety factor of 10% to the computed consumption quantities.
- Applications, which are not clearly mentioned in this technical data sheet may only be implemented after consultation with and written confirmation from the technical service department of SCHOMBURG.
- Cured product residues can be disposed of under waste code AVV 150106.

Please observe a valid EU safety data sheet.

Paint products directive (2004/42/EC):
Group Lb: j
Level 2 (2010): max. 500 g/l
ASODUR-B3311 contains: < 500 g/l
GISCODE: RE 1

Resistance list ASODUR®-B3311

Test liquids	Concentration (%)	Classification		
		≤ 8 h	≤ 72 h	≤ 14 d
Inorganic acids				
Nitric acid	15			■
Sulphuric acid	15			■
Hydrochloric acid	30			■
Organic acids				
Formic acid	2			■
Citric acid	15			■
Lactic acid	20			■
Alkalis				
Caustic soda	20			■
Ammonia	25			■
Solvents				
Kerosine	undiluted			■
Petrol/Gasoline	undiluted			■
Diesel	undiluted			■
Ethanol	undiluted		■	
Oils				
Engine oil	undiluted			■
Brake fluid	undiluted			■
Heating oil	undiluted			■
Aqueous solutions				
De-icing salts solution	35			■

All data was determined under laboratory conditions at +20°C. Deviations due to higher temperatures, local circumstances and ambient conditions are possible. Slight optical surface changes or minimal swelling, without affecting the functionality of the waterproof membrane, cannot therefore categorically be excluded. Where doubt exists, we recommend project related suitability tests.