





## Technical Data Sheet

# ASODUR®-B3356-EFC

Art.-No. 2 06450

Emissions free interior room coating also for "recreation rooms"

	
<b>SCHOMBURG GmbH &amp; Co. KG</b> Aquafinstraße 2 – 8 D-32760 Detmold 16 2.06450	
EN 15042 <b>ASODUR-B3356-EFC</b> Surface protection product – coating	
Principle 5.1/6.1	
Capillary water absorption and impermeability to water	w < 0.1 kg/m <sup>2</sup> × h <sup>0.5</sup>
Impact resistance	class II
Pull off test to assess adhesion strength	≥ 1.5 (1.0) N/mm <sup>2</sup>
Abrasion resistance	loss of mass ≤ 3000 mg
Compressive strength	class II
Resistance to strong chemical attack	loss of hardness < 50%
Reaction to fire	class E
Dangerous substances	compliance with 5.3 of EN 15042

	
<b>SCHOMBURG GmbH &amp; Co. KG</b> Aquafinstraße 2 – 8 D-32760 Detmold 16 2.06450	
DIN EN 13813 <b>ASODUR-B3356-EFC</b> Synthetic resin screed/synthetic resin coating for use in interior rooms	
SRB2.0.ARO.5IR16	
Reaction to fire according to K 2010/85/EU	E
Release of corrosive substances	SR
Wear resistance	ARO.5
Tensile adhesion strength	≥ B2.0
Impact resistance	IR16

### Technical Data:

Basis:	2-comp. epoxy resin
Standard colour:	approx. RAL 7032
Viscosity*):	approx. 1200 mPas
Density*):	approx. 1.34 g/cm <sup>3</sup>
Mixing ratio:	100 : 20 parts by weight
Ambient and substrate temperatures:	min. +10°C, max. +35°C at max. 80% relative humidity
Pot life:	approx. 60 mins. at +10°C approx. 45 mins. at +20°C approx. 15 mins. at +30°C after approx. 20 hrs.
Foot traffic*):	after approx. 20 hrs.
Overcoat*):	after approx. 20 hrs. / max. 48 hrs.
Fully hardened*):	after 7 days
Compressive strength:	44 N/mm <sup>2</sup>
Flexural strength:	40 N/mm <sup>2</sup>
Shore-D Hardness:	approx. 70
Tensile adhesion strength:	B 1.5
Cleaning:	Thoroughly clean work tools immediately after use with ASO-R001.
Packaging:	15 kg and 30 kg containers; component A and component B are supplied at a pre-determined mix ratio.
Storage:	frost free, cool and dry, above +10°C, 6 months in the original unopened containers. Use opened containers promptly.

- highly pigmented
- benzyl alcohol free
- tested in accordance with AgBB
- high mechanical and chemical resistance
- high compressive and flexural strengths
- viscoplastic
- self levelling
- resistant to weathering
- resistant to a range of acids and bases as well as to conventional cleaning materials at application concentrations

### Areas of application:

ASODUR-B3356-EFC is used as a mechanically resistant industrial/interior room coating on cement-based surfaces e.g. concrete and screed, amongst others, for:

- living areas, recreation rooms
- schools, kindergartens
- clinics
- showrooms
- offices
- laboratories
- recreation rooms in the public sector

\*) These values relate to +23°C and 50% relative humidity.

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## Substrate:

The areas to be treated must be

- dry, sound, load-bearing and have a good key
- free from separating and adhesion reducing substances e.g. dust, laitance, grease, rubber marks, paint residues and similar
- protected from rear moisture penetration

Dependent on the condition of the substrate to be treated, use suitable preparation methods e.g. shot blasting, scabbling, planing, grit blasting, brushing, sweeping, vacuuming. In addition the following minimum requirements for cement-based substrates are to be fulfilled:

- Concrete quality: min. C 20/25
- Screed quality: min. EN 13813 CT-C25-F4
- Tensile adhesion strength: >1.5 N/mm<sup>2</sup>

## Product preparation:

Component A (resin) and component B (hardener) are supplied at a pre-determined mixing ratio. Add component B to component A. Ensure that the hardener completely drains from its container. Mixing of both components is to be carried out with a suitable rotary mixer at approx. 300 rpm (e.g. drill with paddle). Here it is important to stir from the sides and the base so that the hardener is evenly dispersed. Mix until the mixture is homogenous (streak free); mix time approx. 3 minutes. During the mixing process the material temperature should be approx. +15°C. Do not use the blended material directly from the supplied packaging! Decant the mass into a clean pot and thoroughly mix through again.

### Producing a levelling compound / scratch coat:

ASODUR-SG3: 1.0 part by weight  
Quartz sand: 1.0-2.0 parts by weight  
(particle size: 0.1-0.6 mm)  
Fibre filler ASO-FF: approx. 1.0% by weight

When a rapid turnaround for overcoating is required after approx. 4 hrs:

ASODUR-SG3-superfast: 1.0 part by weight  
Quartz sand: 1.0-2.0 parts by weight  
(particle size: 0.1-0.3 mm  
or 0.1-0.6 mm)  
Fibre filler ASO-FF: approx. 1.0 % by weight

The addition of the quartz sand to the mix is carried out into the previously homogenously mixed and decanted resin and hardener components of the ASODUR-SG3 or ASODUR-SG3-superfast binder. Ensure that the liquid and solid constituents are evenly blended.

When adding quartz sand, ensure this is kiln dried and, where necessary, other aggregates are also at a temperature of approx. +15°C. Before applying on vertical and sloping surfaces, it is recommended that a thixotropic agent is added to the levelling compound / scratch coat e.g. ASO-FF. The addition quantity is approx. 2 - 5 % by weight, dependent on the fall on the slope. Addition is preferably in stages whilst using a suitable stirrer.

## Application method/consumption:

ASODUR-B3356-EFC is applied by roller or trowel. Before applying ASODUR-B3356-EFC, prepare the substrate and prime with ASODUR-SG3 or ASODUR-SG3-superfast. With deeper irregularities, dependent on roughness depth, apply a scratch coat (see technical data sheets for ASODUR-SG3 or ASODUR-SG3-superfast).

### Thin coating (smooth surface), coat thickness approx. 1.0 mm:

Once the priming coat has cured, trowel apply ASODUR-B3356-EFC in one operation.  
Consumption: approx. 1,400 g/m<sup>2</sup>  
per mm thickness of coat

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# ASODUR®-B3356-EFC

## Thick coating (smooth surface),

### coat thickness approx. 2.0 mm:

Fill ASODUR-B3356-EFC with quartz sand (particle size: 0.1 - 0.6 mm) at a ratio of 2:1 parts by weight and apply in one operation by trowel.

- Consumption (pure binder):  
approx. 1,200 g/m<sup>2</sup> per 1 mm thickness
- Consumption (Quartz sand addition):  
approx. 600 g/m<sup>2</sup> per 1 mm thickness
- Consumption (finished mixture):  
approx. 1,800 g/m<sup>2</sup> per 1 mm thickness

To de-aerate the applied levelling coat, it is essential to roll the area with a spiked roller in order to avoid bubble formation.

## Health & Safety:

Once hardened, ASODUR-B3356-EFC is harmless.

**Note:** When using this product, refer to the Government health & safety protective directive as well as the code of practice for handling epoxies distributed by the building industry professional associations

[www.bgbau.de](http://www.bgbau.de) and [www.gisbau.de](http://www.gisbau.de), and the advice on the packaging.

## 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.
- 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.

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- 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.

Please refer to a valid EU Safety data sheet!

**GISCODE: RE 1**

# Resistance list

## ASODUR®-B3356-EFC

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

This technical data sheet is a translation from German and does not consider local building codes or legal requirements. It shall be used as general reference for the product. Legally binding is only the German technical data sheet or the latest Data sheet from one of our foreign subsidiaries inside their sales territory.