


ASODUR®-SG3-superfast

Art.-No. 2 03543

Rapid setting resin based primer, mortar, drainage resin and casting resin

	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold 15 2 03543	
EN 1504-2 ASODUR-SG3-superfast Surface protection product - Impregnation	
Principle 1.2	
Capillary water absorption and water permeability	$w < 0.1 \text{ kg/m}^2 \times \text{h}^{0.5}$
Water vapour permeability	Classe III $S_D > 50 \text{ m}$
Penetration depth	Classe I $< 10 \text{ mm}$
Tensile adhesion strength by pull-off test	$\geq 1.5 (1.0) \text{ N/mm}^2$
Reaction to Fire	Classe E
Hazardous substances	In compliance with 5.3 of EN 1504-2



- Solvent free.
- Low viscosity.
- Rapid cure.
- Overcoat after 3.5 hours.
- Withstands heavy mechanical loading.
- Watertight.
- Consistency can be adjusted with varying aggregate sizes.
- Moisture barrier.
- Water vapour impermeable.

Areas of application:

- for priming cement-based surfaces, which are to be coated with ASODUR systems
- for producing repair mortars, which will be trafficked again promptly
- for producing levelling compounds and scratch coats as a substrate preparation measure before applying coatings
- can be used where there is moisture penetration from the rear
- can be used to flood repair cracks in screeds to DIN EN 13813
- for producing epoxy resin screeds, repair mortars and drainage mortars
- rapid primer for Hot-Spray Polyurea systems (GEPOTECH)

Technical Data:

Basis:	two component epoxy resin
Colour:	transparent
Viscosity*:	$650 \pm 100 \text{ mPa}\cdot\text{s}$
Mixing ratio:	100 : 47 parts by weight
Density*:	$1.08 \pm 0.02 \text{ g/cm}^3$
Ambient and substrate temp.:	min. approx. $+5^\circ \text{ C}$, max. approx. $+30^\circ \text{ C}$
Pot life*:	approx. 15 - 20 minutes
Foot traffic after*:	approx. 3.5 hours
Overcoat after*:	approx. 3.5 hours, max. 5 days
Fully cured*:	after approx. 7 days
Compressive strength:	approx. 85 N/mm^2 (mortar)
Flexural strength:	approx. 25 N/mm^2 (mortar)
Substrate tensile strength:	1.5 N/mm^2
Water vapour permeability:	$S_D > 50 \text{ m}$ (Class III according to EN 1504-2)

* at $+23^\circ \text{ C}$ and 50% rel. humidity

Cleaning:	Thoroughly clean tools immediately after use with ASO-R001.
Packaging:	1 kg and 6 kg containers. Components A and B are delivered at a predetermined mixing ratio.
Storage:	frost-free, cool and dry, 24 months when stored above $+10^\circ \text{ C}$ in the original unopened packaging. Use opened packagings promptly.

Substrate preparation:

The area to be treated must be:

- dry to damp (in accordance with DAfStB RiLi SIB*), sound, load-bearing and have a good key,
- be free from separating and adhesion reducing substances such as e.g. dust, laitance, grease, rubber marks, paint residues and similar.

ASODUR®-SG3-superfast

Furthermore, ASODUR-SG3-superfast can also be used on the following substrates:

- Concrete and cement-based screeds subjected to moisture from the rear.
- Concrete and cement-based screeds with increased residual moisture*.

* Guidelines for the protection and repair of concrete constructions, part 2, paragraph 2.3.5 "concrete dampness", 07.2002.

Substrate preparation is to be carried out with reference to DIN EN 14879-1:2005, 4.2 following.

Dependent on the condition of the substrate to be treated, use suitable mechanical preparation methods, e.g. high pressure water blasting, scabbling, shot blasting, planing etc, with which a textured, open surface is achieved. (Repair large voids and cracks beforehand with a suitable product from the SCHOMBURG range).

Appropriate to each particular substrate, the following criteria are also to be fulfilled:

- Concrete quality: min. C 20/25
- Screed quality: min. EN 13813 CT-C25-F4
- Tensile adhesion strength: = 1.5 N/mm²

Product preparation:

Components A (resin) and B (hardener) are delivered at a pre-determined mixing ratio. Tip component B into component A. Ensure that the hardener drains completely from its container. Blending of both components together 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 streaks); mixing time approx. 3 minutes. The material temperature during mixing should be approx. +15° C.

Do not use mixed material directly from the packaging!

Decant the material into a clean mixing bucket and mix through thoroughly once again.

Notes:

When using the product ensure that it is applied by flooding evenly over the prepared substrate. Irregularities lead to capillary active pores in the cured priming coat and promote the formation of bubbles especially osmosis bubbles. To ensure the priming coat has blocked the pores, apply a second coat. Pore blocking can also be ensured through the application of a second layer of a dense smoothing mortar. This smoothing mortar is produced from the priming resin with the addition of quartz sand. When adding aggregates (e.g. quartz sand) ensure that the aggregate is dry and is also at a temperature of approx. +15° C.

Production of levelling / scratch coats:

ASODUR-SG3-superfast:	1.0 part by weight
Quartz sand:	1.0 part by weight (grade: e.g. 0.1 – 0.6 mm)
ASO-FF	approx. 2 % by weight to the mixed material

The quartz sand is mixed with the already mixed and decanted resin and hardener components. Ensure that the liquid and solid components are evenly blended together. Before application on vertical or steeply sloping surfaces it is recommended that with levelling/scratch coats ASO-FF is added.

Production of epoxy resin screeds:

a.) Thickness:	approx. 5 – 15 mm
ASODUR-SG3-superfast:	3.0 part by weight
Quartz sand:	25 parts by weight
Grading:	0.06 – 1.5 mm ø
Compressive strength:	approx. 85 N/mm ²
Flexural strength:	approx. 25 N/mm ²

ASODUR®-SG3-superfast

b.) Thickness:	9-40 mm
ASODUR-SG3-superfast:	3.0 part by weight
Quartz sand:	25 parts by weight
Grading:	0.06-3.5 mm ø
Compressive strength:	approx. 85 N/mm ²
Flexural strength:	approx. 25 N/mm ²

Place the predetermined quantity of quartz sand in a forced action mixer (e.g. type Zyklus or UEZ). Subsequently add the previously homogenously mixed resin and hardener components. Ensure that the liquid and solid components are evenly mixed together.

Production of the drainage mortar:

ASODUR-SG3-superfast:	1.0 part by weight
Quartz sand*:	25.0 parts by weight
Grading:	1.0-4.0 mm ø
Compressive strength:	aprox. 20 N/mm ²
Flexural strength:	approx. 5 N/mm ²

* Wir empfehlen die Körnung SB 1 - 3,15 T Quarzwerke GmbH, Frechen

Method of application / consumption:

Priming: Apply ASODUR-SG3-superfast in two coats.
Consumption: approx. 300-500 g/m² per coat.

Priming for mineral-based levelling and smoothing mortars, e.g. for SOLOPLAN-30-PLUS:

Apply ASODUR-SG3-superfast in two coats.
Consumption: approx. 300-500 g/m² /coat
Once the first application coat has dried, broadcast the fresh primer of the second application coat with quartz sand (particle size: 0.1-0.6 mm or 0.5-1.0 mm).
Consumption: 1.0-1.5 kg/m²

Levelling / scratch coat:

Firstly prime the floor with ASODUR-SG3-superfast.
Consumption: approx. 300-500 g/m².
The mixed smoothing compound is skim applied in one coat.

Consumption of fine smoothing compound:
approx. 1.9 kg/m²/mm per thickness

Epoxy resin screed:

Firstly prime the floor with ASODUR-SG3-superfast.
Consumption: approx. 450-700 g/m²
Apply the mixed screed to the freshly primed area at a minimum thickness of approx. 5mm, strike off with a lath and finish off mechanically smoothen (use a blade or plate power float).
Consumption of prepared screed mix:
approx. 2.0 kg/m²/mm per thickness

Important advice:

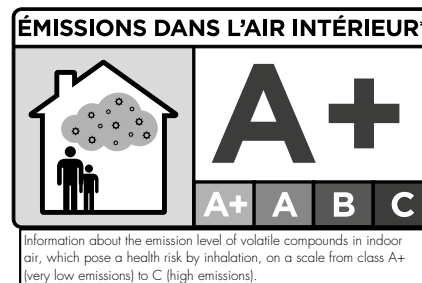
- As a rule SCHOMBURG products are supplied in working packs i.e. at a predetermined mixing ratio. With deliveries in large containers, part quantities will need to be weighed using scales. Always thoroughly stir the filled components and only then blend with the second component. This is to be carried out with a suitable rotary mixer e.g. Polyplan/Ronden mixing paddle or similar. In order to exclude mixing errors, decant into a clean mixing bucket 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.
- Higher temperatures shorten the pot life. Lower temperatures increase the pot life and curing time. Material consumption is also increased at lower temperatures.

ASODUR®-SG3-superfast

- Colour: Minor colour variations due to different 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 can be heavily impeded by the influence of moisture or contamination between successive applications.
- The bond between the individual coats can be heavily impeded through the influence of moisture or contamination between successive applications. The substrate temperature must be a min. of $<3^{\circ}\text{C}$ above the dew point.
- If there is a long time period between coatings or if areas need to be re-coated after a long time period, then the old surface must be well cleaned and thoroughly abraded, after which a completely new pore free sealing coat should be applied. It is not sufficient to simply 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.
- 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 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 are to be disposed of under waste disposal classification AVV 150106.

Please observe a valid EU safety data sheet!

GISCODE: RE1



ASODUR®-SG3-superfast

Resistance list

Test liquids	Concentration (%)	Classification		
		low resistance (≤ 8 hours)	medium resistance (≤ 72 hours)	high resistance (≤ 14 days)
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.