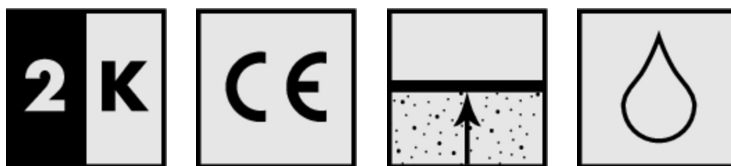


# ASODUR®-SG3

Epoxy resin barrier primer for damp substrates



Material number	Contents	Unit of quantity	Packaging	Colour
205049005	1	KG	Can	Transparent
205049006	10	KG	Combination packs	Transparent
205049007	30	KG	Set	Transparent

## Product features

- Solvent free
- Low viscosity
- Water and frost resistant
- resistant to diluted alkaline solutions, acids, aqueous salt solutions, lubricants
- Moisture-compatible and diffusion-inhibiting
- Fulfils AgBB formula requirements
- Barrier effect against methane gas

## Advantages

- suitable for spraying with airless spray equipment
- sprinkling with quartz sand is not necessary in every case
- very good adhesion on matt damp substrates
- can be used variably with different aggregates
- Watertightness against negative pressing water up to 3 bar

## Areas of application / surface protection

- for pore blocked priming and sealing of cement-based surfaces
- for the production of levelling compounds, scratch fillers and epoxy resin mortars
- for substrate preparation under conventional floor coverings (PVC, linoleum, carpet, etc.)

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## Existing test certificates

- Emission tests
- AbP (general test certificate from the building authorities)
- Water vapour permeability in accordance with DIN EN ISO 7783-2
- Investigation report 20-20
- Determination of methane permeability

## Technical Data

### Material properties

Product components	2 component system
Base material	Epoxy resin
Consistency	Liquid
Density, ready to use product (ISO 1183-1)	approx. 1.09 g/cm <sup>3</sup>
Flexural strength (DIN EN 196-1)	approx. 58 N/mm <sup>2</sup>
Compressive strength (DIN EN 196-1)	approx. 76 N/mm <sup>2</sup>
Tensile adhesion strength (concrete, dry until matt damp)	≥ 1.5 N/mm <sup>2</sup>
Viscosity, ready to use product [value]	approx. 600 mPa*s
Watertightness against negative pressing water	to 3 bar
Classification of the reaction to fire in accordance with DIN EN 13501-1	Efl

### Mixing

Mix ratio, component A	100 weight proportion
Mix ratio, component B	52 weight proportion
Mix ratio, addition of ASO-FF levelling / scratch coat	from 0.02 percentage by weight to 0.03 percentage by weight
Mix ratio, addition of levelling / scratch coat quartz sand	1 weight proportion
Mix ratio epoxy resin mortar 11-150 mm (quartz sand Ø 0.06-3.5 mm)	approx. 8.3 weight proportion
Mix ratio epoxy resin mortar 5-30 mm (quartz sand Ø 0.06-1.5 mm)	approx. 8.3 weight proportion
Mixing time	approx. 3 minutes

### Application

Substrate temperature	from 10 °C to 35 °C
Max. relative humidity	80 %
Pot life	approx. 35 minutes
Minimum reaction temperature	min. 10 °C
Mixing method, machines, tools	Drill with stirrer
Consumption	approx. 0.40 - 0.70 kg/m <sup>2</sup>
Overcoat (min.)	after 12 hours
Consumption per mm layer thickness (levelling and scratch coat with quartz sand)	approx. 1.6 kg/m <sup>2</sup>
Foot traffic after	approx. 12 hours
Consumption (epoxy resin screed 11-150 mm per mm layer thickness)	approx. 2 kg/m <sup>2</sup>
Consumption (epoxy resin screed 5-30 mm per mm layer thickness)	approx. 2 kg/m <sup>2</sup>
Application temperature	from 10 °C to 35 °C
Overcoat (max.)	to 5 days
Hardening time / full resilience	approx. 7 days

## Application technology

### Aids/tools

- Stirrer (approx. 300 rpm)
- Rubber lip slider
- Circular cage
- Nylon fur roller (6mm) with textured polyamide cover

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## Manual processing

- distributable with rubber lip slider
- Distributable with nylon fur roller

## Suitable covering

Floor coverings

## Substrate preparation

### Requirement for substrate

1. Dry to damp (in accordance with DAfStB "Guideline for protection and maintenance of concrete parts")
2. Firm
3. Load-bearing
4. Grippy
5. Free of adhesion inhibiting substances

### Measures for substrate preparation

Substrate preparations must be carried out in compliance with DIN EN 14879-1:2005, 4.2 et.seq.

### Substrate quality class

	Concrete	Screed	Plaster
<b>Quality</b>	at least C20/25	at least CT-C25-F6	at least P IIIa/P IIIb
<b>Tensile adhesion strength</b>	≥ 1.5 N/mm <sup>2</sup>	≥ 1.5 N/mm <sup>2</sup>	ca. 0.8 N/mm <sup>2</sup>

## Usage

### Mixing

1. The (ideal) material temperature during the mixing procedure is +15 °C.
2. Add the hardener to the resin.
3. The hardener must run completely out of the container.
4. Mix thoroughly with the mixer until a homogeneous consistency.
5. The hardener must be distributed evenly.
6. The mixing time is ca. 3 minutes.
7. Decant the mass into a clean bucket.
8. Stir meticulously again.

### Primer

1. apply ASODUR<sup>®</sup>-SG3 using the roller method.
2. To ensure a pore blocked primer coat, apply the primer in two layers.
3. The clean, primed surface must be recoated within 12 hours to max. 5 days.
4. Only walk on non-sanded primer with clean overshoes.
5. The sprinkling of a second layer of the primer with quartz sand is possible.
6. After the sanded layer has cured, the unbound quartz sand is meticulously removed before the next application step.

### Production of levelling compound /scratch coat material: /

1. The quartz sand (Ø 0.1-0.6 mm) is mixed into the previously homogeneously mixed and re-potted resin and hardener component (mix ratio 1:1).
2. Mix the liquid and solid components evenly.
3. Before application on vertical and inclined surfaces it is recommended to add ASO-FF (2-3 wt %).
4. Consumption of mixture for scratch coat approx. 1.6 kg/m<sup>2</sup> per mm layer thickness.

### Levelling / scratch coat

1. Prime the substrate with ASODUR<sup>®</sup>-SG3.
2. Apply the material in one application step.

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### Primer for cementitious flow and floor levelling compound

1. apply ASODUR<sup>®</sup>-SG3 using the roller method.
2. After the first priming coat has cured, roller apply the second priming coat.
3. apply ASODUR<sup>®</sup>-SG3 as a second coat using the roller method.
4. Consumption approx. 0.3 kg/m<sup>2</sup>
5. Sand covering the whole area of the fresh primer with quartz sand (Ø 0.1 - 0.6 mm or Ø 0.5 - 1.0 mm).
6. Consumption: approx. 1 - 1.5 kg/m<sup>2</sup>
7. After the scattered primer coat has cured, meticulously remove the unbound quartz sand before application.

### Mixing and applying of the epoxy resin coating

1. Add the quartz sand (Ø 0.06 - 1.5 mm or Ø 0.06 - 3.5 mm) in the correct quantity (3:25) to the forced paddle mixer (e.g. type: Zyklos or UEZ).
2. Then add the mixed resin mixture.
3. Mix the liquid and solid components evenly.
4. Prime ASODUR<sup>®</sup>-SG3 using the roller method.
5. Consumption approx. 0.3 kg/m<sup>2</sup>
6. The mixed screed is applied to the still fresh primer in a layer thickness of at least approx. 5 mm, drawn off with gauges and mechanically smoothed.
7. Consumption of screed mix approx. 2 kg/m<sup>2</sup> per mm layer thickness

### Producing and application of the epoxy resin screed (layer thickness from 11 to 150 mm)

1. Add the quartz sand (Ø 0.06 - 3.5 mm) in the correct quantity (3:25) to the forced paddle mixer (e.g. type: Zyklos or UEZ).
2. Then add the mixed resin mixture.
3. Mix the liquid and solid components evenly.
4. Prime ASODUR<sup>®</sup>-SG3 using the roller method.
5. Consumption approx. 0.3 kg/m<sup>2</sup>
6. The mixed screed is applied to the still fresh primer in a layer thickness of at least approx. 5 mm, drawn off with gauges and mechanically smoothed.
7. Consumption of screed mix approx. 2 kg/m<sup>2</sup> per mm layer thickness

### Producing and applying epoxy mortar as a levelling and coving mortar

1. Stir the quartz sand (Ø 0.06-1.5 mm) homogeneously into the mixed ASODUR<sup>®</sup>-SG3 in a mix ratio of 3:25.
2. Prime the substrate with ASODUR<sup>®</sup>-SG3.
3. Apply the mortar while still wet using trowel techniques, ensuring even compaction.

### Cleaning tools

Immediately after use, clean tools with ASO-R001.

### Storage conditions

#### Storage

Store in a frost-free, cool and dry place. At min. 10 - 25 °C for 24 months in the original canister. Promptly use opened canister.

### Disposal

Hardened product leftovers can be disposed of in accordance with disposal code AW 15 01 06.

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## Notes

- The indicated consumption quantities are calculated values without additions for textured surface roughness and absorbency, level compensation, and residual material in the canister. We always recommend a calculated safety addition of 10% on top of the calculated consumption quantities.
- Higher temperatures shorten the pot life. Lower temperatures increase the application and hardening times. The rate at which material is consumed also increases at lower temperatures.
- The bonding between the individual layers can be strongly disrupted between the individual application steps due to the effects of dampness and contamination. Coating work requires a substrate temperature of at least 3 °C above the dew point temperature.
- If longer waiting times arise between the individual application steps or surfaces that have already been treated with liquid resin are coated again after an extended waiting time, the old surface must be well cleaned and thoroughly ground. Then apply a complete pore-free new coating.
- Arrange for proper ventilation during the drying and hardening phases.
- After they have been applied, surface protection systems must be protected against dampness (e.g. rainwater, condensation water) for approx. 4-6 hours. Moisture causes a white colour and/or stickiness on the surface and can cause problems during hardening. Discoloured and/or sticky surfaces must be removed and reworked, e.g. through grinding or shot blasting.
- Observe the technical data sheets of the products mentioned before starting work.
- Applications that have not been clearly mentioned in this technical data sheet may only be carried out after the technical service department of SCHOMBURG GmbH has been consulted, and after the said department has approved of such a course of action in writing.
- For detailed information on application, read and observe supplementary technical information no. 19 "Applying ASODUR<sup>®</sup> products".


**The recognised standards of construction engineering, the relevant guidelines and current regulations must be observed.**

**Observe applicable safety data sheet!**

GISCODE: RE 55

## Annotations

Conformity / Declaration / Verification

	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold (Germany) 06 2 05049	
EN 1504-2 <b>ASODUR-SG3</b> Surface protection material - Impregnation	
Principle 1.2	
Capillary water absorption and water permeability	$w < 0.1 \text{ kg/m}^2 \times t^{0.5}$
Penetration depth	Class 1 < 10 mm
Pull-off test for assessment of adhesion	$\geq 1.5 (1.0) \text{ N/mm}^2$
Reaction to fire	class E
Hazardous substances	Compliance with 5.3 of EN 1504-2

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