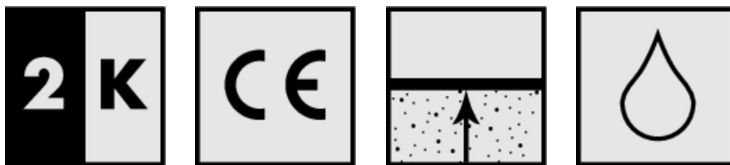


ASODUR[®]-SG3-superfast

Rapid epoxy resin primer, multi-functional



Material number	Contents	Unit of quantity	Packaging	Colour
203543001	1	KG	Can	Transparent
203543002	6	KG	Combination packs	Transparent
203543003	3	KG	Combination packs	Transparent

Product features

- Solvent free
- Low viscosity
- rapid reacting
- Water and frost resistant
- moisture-compatible and diffusion-blocking
- Very low emission - EMICODE[®] EC 1^{PLUS}
- Fulfils AgBB formula requirements

Advantages

- overcoat after approx. 3.5 hours
- can be used variably with different aggregates
- very good adhesion on matt damp substrates
- Watertightness against negative pressing water up to 3 bar
- withstands high mechanical loading

Areas of application / surface protection

- for priming cement-based surfaces
- for the production of levelling and scratch coat material
- for the production of repair mortars that are quickly subject to loads again
- for the production of epoxy resin screeds, repair mortars and drainage mortars
- for grouting cracks in screeds
- with rear moisture penetration

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Existing test certificates

- Emission tests
- Reaction to fire
- Water vapour permeability in accordance with DIN EN ISO 7783-2
- Investigation report 20-20

Technical Data

Material properties

Product components	2 component system
Base material	Epoxy resin
Consistency	Liquid
Density, ready to use product (ISO 1183-1)	approx. 1.08 g/cm ³
Flexural strength of the (screed) mortar	approx. 25 N/mm ²
Compressive strength of the (screed) mortar	approx. 85 N/mm ²
Adhesion	≥ 1.5 N/mm ²
Tensile adhesion strength (concrete, dry until matt damp)	≥ 1.5 N/mm ²
Viscosity, ready to use product [value]	approx. 650 mPa*s
Water vapour permeability, SD value	> 100 m (class III per DIN 1504-2)
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	47 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
Mix ratio drain mortar (quartz sand Ø 1 - 3.15mm)	approx. 25 weight proportion
Mixing time	approx. 3 minutes

Application

Substrate temperature	from 10 °C to 35 °C
Max. relative humidity	80 %
Minimum reaction temperature	min. 10 °C
Consumption	approx. 0.40 - 0.70 kg/m ²
Second application step after waiting time	approx. 3 - 4 hours
Consumption per mm layer thickness (levelling and scratch coat with quartz sand)	approx. 1.6 kg/m ²
Consumption (epoxy resin screed 11-150 mm per mm layer thickness)	approx. 2 kg/m ²
Consumption (epoxy resin screed 5-30 mm per mm layer thickness)	approx. 2 kg/m ²
Consumption (drain mortar mixture per mm layer thickness)	approx. 1.6 kg/m ²
Pot life	approx. 15 - 20 minutes
Application temperature	from 10 °C to 35 °C
Overcoat (min.)	approx. 3.5 hours
Overcoat (max.)	to 5 days
Hardening time / full resilience	approx. 7 days

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Application technology

Aids/tools

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

Manual processing

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

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
Quality	at least C20/25	at least CT-C25-F6	at least P IIIa/P IIIb
Tensile adhesion strength	≥ 1.5 N/mm ²	≥ 1.5 N/mm ²	ca. 0.8 N/mm ²

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 flowing and pore sealed ASODUR[®]-SG3-superfast.
2. To ensure a pore blocked primer coat, apply the primer in two layers.
3. The waiting time between the first and second application is approx. 3.5 hours.

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 %).

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Primer for cementitious flow and floor levelling compound

1. apply ASODUR[®]-SG3-superfast using the roller method.
2. After the first priming coat has cured, roller apply the second priming coat.
3. apply ASODUR[®]-SG3-superfast as a second coat using the roller method.
4. Consumption approx. 0.3 kg/m²
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/m²
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[®]-SG3-superfast using the roller method.
5. Consumption approx. 0.3 kg/m²
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/m² 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[®]-SG3-superfast using the roller method.
5. Consumption approx. 0.3 kg/m²
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/m² per mm layer thickness

Producing and application of drainage mortar

1. Add the quartz sand (Ø 1.0 - 4.0 mm) in the correct quantity (1:25) 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. Application of the drainage mortar using the smoothing method / screed method.
5. Drainage mortar mix consumption: approx. 1.6 kg/m² per mm layer thickness.

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

- All values given in the TM apply at +23 °C and 50% relative humidity.
- 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[®] 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

 1119	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold (Germany) 15 2 03543	
EN 1504-2 ASODUR-SG3-superfast Surface protection material - Impregnation	
Principle 1.2	
Capillary water absorption and water permeability	w < 0.1 kg/m ² × h ^{0.5}
Water vapour permeability	Class III SD > 50 m
Penetration depth	Class I < 10 mm
Pull-off test for assessment of adhesion	≥ 1.5 (1.0) N/mm ²
Reaction to fire	Class E
Hazardous substances	Compliance with 5.3 of EN 1504-2

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Chemical durability

Test fluid	Concentration (%)	Classification		
		low resistance (≤ 8 hours)	moderate 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				
Sodium hydroxide	20			■
Ammonia	25			■
Solvent				
Kerosene	neat			■
Petrol	neat			■
Diesel	neat			■
Ethanol	neat		■	
Oils				
Engine oil	neat			■
Brake fluid	neat			■
Heating oil	neat			■
Aqueous solution				
De-icing salt-solution	35			■

All information has been determined under lab conditions at +20 °C, deviations due to higher temperatures, local conditions and ambient conditions are possible. It is not possible to fully exclude minor visible surface changes or slight swelling that does not affect the functionality of the waterproofing. In case of doubt, we recommend an object-specific suitability test.

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