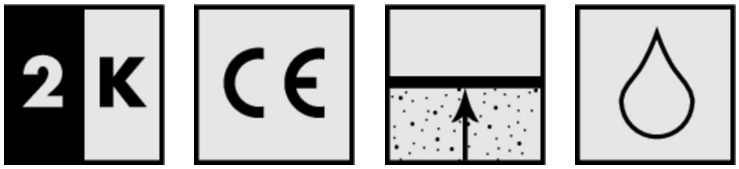
ASODUR®-SG2

Special epoxy resin primer, oil and vapour barrier



Material number	Contents	Unit of quantity	Packaging	Colour
205655011	28	KG	Set	light grey
205655001	15	KG	Combination packs	light grey
205655004	5	KG	Combination packs	light grey
205655902	2	KG	Combination packs	light grey
205655006	5	KG	Combination packs	light grey

Product features

- moisture-compatible and diffusion-blocking
- Radon tight
- Low solvent

Advantages

- Barrier against capillary rising oils
- very good adhesion on damp concrete substrates
- Displaces water from the capillary structure of the concrete in the surface area
- Watertightness against negative pressing water up to 3 bar

Areas of application / surface protection

- as a special primer for oil-contaminated, cleaned concrete substrates
- as a primer for concrete/bonded screed surfaces that are still matt damp with subsequent covering
- as a primer under cementitious levelling compounds
- as capillary-breaking joint sealing in pool edges
- as protection against osmosis bubbles with rear moisture exposure

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Existing test certificates

- Radon-tightness
- Investigation report 20-20
- Water vapour permeability in accordance with DIN EN ISO 7783-2

Technical Data

Material properties

Product components	2 component system
Base material	Epoxy resin
Consistency	Liquid
Density, ready to use product (ISO 1183-1)	approx. 1.86 g/cm³
Flexural strength (DIN EN 196-1)	approx. 42 N/mm²
Compressive strength (DIN EN 196-1)	approx. 100 N/mm²
Tensile adhesion strength (concrete, dry until matt damp)	≥ 1.5 N/mm²
Viscosity, ready to use product [DIN discharge cup]	approx. 70 seconds in DIN outlet cup
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	12 weight proportion
Mix ratio capillary-breaking grout (quartz sand Ø 0.5 - 1.0 mm)	approx. 1 weight proportion
Mixing time	approx. 3 minutes

Application

Substrate temperature	from 10 °C to 35 °C
Max. relative humidity	80 %
Pot life	approx. 60 minutes
Minimum reaction temperature	min. 10 °C
Mixing method, machines, tools	Drill with stirrer
Consumption	approx. 0.60 - 1.00 kg/m²
Overcoat (min.)	after 12 hours
Consumption (capillary-breaking mortar per mm layer thickness)	approx. 2.2 kg/m²
Foot traffic after	approx. 12 hours
Application temperature	from 10 °C to 35 °C
Hardening time / full resilience	approx. 7 days

Application technology

Aids/tools

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

Manual processing

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

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Suitable covering

Floor coverings

Substrate preparation

Requirement for substrate

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

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/mm²	≥1.5 N/mm²	ca. 0.8 N/mm²

Oil-contaminated surfaces

1. Following successful substrate preparation, pre-treat the surfaces concerned with the cleaning material ASO®-R008 (dilution in accordance with the technical data sheet of ASO®-R008).
2. Clean the treated surfaces with warm water (approx. +50 °C to +70 °C).
3. Remove excess water with suitable suction equipment.
4. Apply ASODUR®-SG2 by brush and roller.
5. Please note: No sealed water film may be present on the surface of the concrete! The substrate may not be dried off – drying off results in the danger that rising oil could negate bonding of the special primer to the substrate.
6. The still fresh primer is sprinkled with quartz sand (Ø 0.5-1.0 mm) covering the whole area.

Usage

Mixing

1. The (ideal) material temperature during the mixing procedure is +15 °C.
2. Mix the resin homogeneously in the original container.
3. Add the hardener to the resin.
4. The hardener must run completely out of the container.
5. Mix thoroughly with the mixer until a homogeneous consistency.
6. The hardener must be distributed evenly.
7. The mixing time is ca. 3 minutes.
8. Decant the mass into a clean bucket.
9. Stir meticulously again.
10. When adding quartz sands, make sure that they are kiln-dried and, like other aggregates, also have a temperature of approx. +15 °C.

Application

1. ASODUR®-SG2 is applied generously to the prepared substrate with a suitable tool.
2. Meticulously brush into the surface area with a primer brush.
3. Roll on evenly with a short-pile fur roller.
4. The fresh primer is sprinkled with quartz sand (Ø 0.5-1.0 mm) to cover the entire surface.
5. After the sanded layer has cured, the unbound quartz sand is meticulously removed before the next application step.
6. After a waiting time of approx. 12 to 24 hours, work can continue with an ASODUR® coating system or the floor covering structure.

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Capillary-breaking joint filler

1. Add the quartz sand (Ø 0.5 - 1.0 mm) in the predetermined quantity (1:1) to the forced paddle mixer.
2. Then add the mixed resin mixture.
3. Mix the liquid and solid components evenly.
4. Prime the substrate with ASODUR-SG2.
5. Pour in the mortar mixture while still wet and spread and compact evenly. Consumption of mixture approx. 2.2 kg/l.

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 AVV 15 01 06.

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.
- If ASODUR®-SG2 is used as a vapour barrier under conventional floor coverings, e.g. PVC, linoleum, carpet and parquet, then no adhesive containing solvents may be used. This leads to persistent buckling in the applied floor covering.
- If organic acids (e.g. propionic acid) are used or present in mobile silo systems, ASODUR®-SG2 must not be used as the sole waterproofing and surface protection measure. ASODUR®-SG2 must be coated with a top coat adapted to the usage requirements.
- 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 50

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Annotations

Conformity / Declaration / Verification

CE

1119

SCHOMBURG GmbH & Co. KG
Aquafinstraße 2–8
D-32760 Detmold (Germany)
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2 05655

EN 1504-2
ASODUR®-SG2
Surface protection material – Impregnation

Principle 1.2

Capillary water absorption and water permeability	$w < 0.1 kg/m^2 \times h^{0.5}$
Penetration depth	Class I < 10 mm
Pull-off test for assessment of adhesion	≥ 1.5 (1.0) N/mm²
Reaction to fire	Class E
Hazardous substances	Compliance with 5.3 of EN 1504-2