
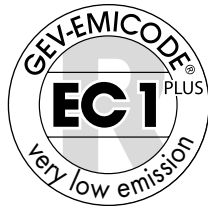


ASODUR®-SG3-thix

Art. No. 2 05047

**Primer system for the DENSARE-PREMIUM system,
 barrier primer for damp substrates**

	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold, Germany 13 2 05047	
EN 1504-2 ASODUR-SG3-thix Surface protection material - impregnation	
Capillary water absorption and water permeability	$w < 0.1 \text{ kg/m}^2 \times \text{h}^{0.5}$
Penetration depth	Class I < 10 mm
Tensile adhesion strength by pull-off test	$\geq 1.5 (1.0) \text{ N/mm}^2$
Reaction to fire	Class E
Hazardous substances	In compliance with 5.3 of EN 1504-2



(committee for health-related evaluation of building products), the Belgian Royal Decree C-2014/24239, and the "French VOC regulation" (French VOC classification regulation and KMR emissions regulation). ASODUR-SG3-thix is very low emission in accordance with GEV-EMICODE, which normally results in positive evaluations within the scope of building certification systems in accordance with DGNB, LEED, BREEAM, HQE. Maximum quality level 4, lines 7 and 8 in accordance with DGNB criteria "ENV 1.2 Risks to the local environment".

- solvent-free, moisture-compatible 2-comp. epoxy resin
- very good adhesion on damp substrates
- sprayable
- water vapour retarder
- very low-emission EC1PLUS R in accordance with GEV-EMICODE

Areas of use:

ASODUR-SG3-thix is used:

- as a system primer in the waterproofing system DENSARE-PREMIUM
- as a primer under coatings in the floor, wall, and ceiling area
- as a primer on concrete surfaces that are still damp
- as a protective primer against increasing moisture on cement-based screeds that are applied "fresh on fresh"
- as a vapour-resistant primer to avoid osmotic bubbles in case of reverse moisture penetration
- as a special pre-primer for oiled and other contaminated but previously cleaned concrete substrates
- for producing capillary-breaking mortar

ASODUR-SG3-thix is suitable for indoor use in accordance with the evaluation scheme of the AgBB

Technical data:

Basis:	2-comp. epoxy resin
Standard colour:	light grey
Viscosity*:	thixotrop
Mixing density*:	approx. 1.50 g/cm ³
Mix ratio:	100 : 26 parts by weight
Ambient and substrate temperatures:	min. +8 °C max. +30 °C at max. 80% rel. humidity
Pot life*:	approx. 35 min.
Foot traffic*:	after approx. 12 hours
Overcoat after*:	after approx. 12 hours to max. 5 days)
Fully cured*:	after approx. 7 days
Tensile adhesion strength:	B 1.5
Compressive strength*:	approx. 80 N/mm ²
Flexural strength*:	approx. 40 N/mm ²
Water vapour resistance factor μ :	approx. 174240
Water vapour permeability at 0.6 mm Layer thickness:	sD value approx. 105 m
* at +23 °C and 50% rel. humidity	
Cleaning:	Immediately after use, clean tools meticulously with ASO-R001.

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Packaging: 6-kg container
comp. A and comp. B are present in a specified mix ratio,

Storage: Frost-free, cool and dry, $\geq +10\text{ °C}$ to $+25\text{ °C}$, 18 months in the original unopened container, use opened container promptly

Substrate:

The surfaces to be treated must be tested for suitability prior to coating, load-bearing, clean, dry to damp (in accordance with DAfStB Rili SIB*) and free of substances that could impair adhesion. Weak surfaces or adhesion inhibiting layers, e.g. oils, greases, release agents, or covering and paint residues must be removed completely. In critical situations, e.g. severely absorbent concrete substrates, we generally recommend application of a test area to ensure that a sealed, pore-free primer is able to be created.

* Relevant guideline for protection and repair of concrete components, part 2, section 2.3.5 "concrete moisture", 07.2002.

Depending on the area of application, substrate preparation must be completed according to DIN 18531, DIN 18534, DIN 18535, ZDB data sheet "bonded waterproof systems" or "swimming pool construction".

Depending on the texture of the substrate to be treated, suitable mechanical processes, e.g. high-pressure water jetting, milling, shot blasting, grinding, etc. must be used to produce a pore-open surface. Larger voids must be levelled in advance using suitable products from the SCHOMBURG range.

In accordance with the respective substrate, the following criteria must also be met:

Concrete quality class, PCC mortar (in accordance with DIN EN 1504-3):	at least C 20/25, minimum 3 months old
Tensile adhesion strength:	1.5 N/mm ²

Screed quality class:	min. CT-C25-F4, min. 28 days old
Tensile adhesion strength:	$\geq 1.5\text{ N/mm}^2$ In the context of tiles and panel coverings on a separating layer or insulation, a moisture content of 2 CM% must be maintained.

Plaster quality class:	min. P IIIa/P IIIb, min. 28 days old
Tensile adhesion strength:	$\geq 0.8\text{ N/mm}^2$

Oil-contaminated concrete surfaces:

- Clean accordingly using ASO-R008 cleaning materials.
- Afterwards, clean the surface using high-pressure water jetting.
- Next, brush, paint, and roll ASODUR-SG3-thix equally onto the substrate while it is still matt-damp.

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.

Application:

Component A (resin) and component B (hardener) are delivered in the predetermined mix ratio. Component B is added to component A. It should be ensured that the hardener runs completely out of its container. A suitable mixer should be used to mix the two components, and this should be completed at approx. 300 min^{-1} (e.g. drilling machine with stirrer). The contents should also be stirred up from the sides and from the base, so that the hardener will be distributed evenly. Stirring should be continued until the mixture becomes homogeneous (streak-free); mixing time: approx. 3 minutes. The material temperature should be at the approximate level of $+15\text{ °C}$ during the mixing procedure. **Do not apply the mixed material from the delivered packaging!** Decant the bulk into a clean container and stir meticulously once again.

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Method of application/Consumption:

ASODUR-SG3-thix is applied to the cleaned, dried, or still matt-damp substrate again to seal the pores.

1. On the horizontal surfaces, ASODUR-SG3-thix is equally distributed first with a rubber slider, and then the primer brush is used to brush it into the surface zone meticulously, and then a low-level wool roller is used to work it in using a crosswise technique.
2. If the material is applied to angled surfaces by hand, then use a low-level wool roller or a whitewash brush to apply it equally first, and then use a primer brush to brush it into the surface zone meticulously, and then use the wool brush to rework it again afterwards. On vertical and "overhead" surfaces, ASODUR-SG3-thix is applied advantageously using an airless system.
3. After a waiting time of min. 12 hours, ASOFLEX-AKB-wall/floor waterproofing or ASODUR coatings may be used to continue working. Protect the surfaces against fouling! Walk on the surfaces with clean shoe covers only until the complete system construction of the DENSARE-PREMIUM system or the ASODUR coating has completed.

Producing and applying capillary-breaking mortars:

1. Mix the mixed ASODUR-SG3-thix with quartz sand of aggregate grain 0.06- 1.5 mm at a mix ratio of 1 : 4 to produce a homogeneous mixture and apply, evenly compacted, using a trowel technique.
Consumption approx. 2.0 kg/m² per mm layer thickness. Minimum layer thickness approx. 20 mm, maximum layer thickness approx. 50 mm. The pot life at +23 °C is approx. 70 minutes. The mortar blocks water at a layer thickness of 20 mm.

As a protective primer against increasing moisture in connection with cement-based screeds that are applied "fresh on fresh":

ASODUR-SG3-thix is applied to the cleaned, dried, or still matt-damp substrate again to seal the pores.

1. On the floor surface, ASODUR-SG3-thix is equally

distributed first with a rubber slider, and then the primer brush is used to brush it into the surface zone meticulously, and then a low-level wool roller is used again to work it in using a crosswise technique.

2. After a waiting time of min. 12 hours, ASODUR-SG3-thix is rolled on or brushed on again generously as described in point 1. Next, the cement-based screed is applied fresh-in-fresh in the regular damp earth application technique.

As a protective primer against increasing moisture in connection with the following mortars, which are applied on the cured primer consisting of ASODUR-SG3-thix.

ASODUR-SG3-thix is applied to the cleaned, dried, or still matt-damp substrate again to seal the pores.

1. On the floor surface, ASODUR-SG3-thix is equally distributed first with a rubber slider, and then the primer brush is used to brush it into the surface zone meticulously, and then a low-level wool roller is used again to work it in using a crosswise technique.
2. After a waiting time of min. 12 hours, ASODUR-SG3-thix is rolled on or brushed on again generously as described in point 1. Next, quartz sand with an aggregate of 0.5 - 1.0 mm is spread across the surface. After the layer has cured, tiles may be applied with a thin-bed mortar like MONOFLEX-XL.

Important instructions:

- SCHOMBURG products are normally delivered in working packs, i.e. in a matched and predetermined mix ratio. In case of filled components, these are always stirred up thoroughly and then mixed with the second component. This takes place using a suitable stirrer, e.g. a round-plate mixing machine or equivalent. To avoid mixing errors, the material is transferred to a clean container and mixed again. The mixing speed should be 300-400 min⁻¹. Ensure that air is not mixed in. The temperature of the components should be minimum

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+15 °C. This also applies to filler materials that should be mixed in, e.g. sand. Mixing in filler materials should take place after the liquid components have been mixed. Afterwards, apply the completely stirred material immediately to the prepared substrate and distribute it meticulously. Higher temperatures shorten the pot life. Lower temperatures increase the application and hardening times. The material rate that is consumed also increases at lower temperatures.

- Severely absorbent substrates that tend towards pores, bubbles, or pinholes must be treated beforehand. In addition to this, 6% ASO-FF (fibre filler material) is mixed into the mixed ASODUR-SG3-thix. Using the levelling compound that is created, a scratch coat is completed first.

Next, a 4 mm toothed trowel is used for fresh-in-fresh application, and then the layer is smoothed off. After the material is cured, ASODUR-SG3-thix is used to prime as described in the method of application in point 1. Rate: approx. 1.7 kg/m²

- After its application, the primer must be protected against moisture (e.g. rain, dew, and fouling) for further over-coating. Moisture causes a white colour and/or stickiness on the surface and can cause problems during curing. Sticky surfaces must be removed and reworked, e.g. via grinding or shot blasting.
- High temperatures, direct sunlight, and draught air can cause a skin to form and impair the necessary grain formation and penetration into the substrate.
- If ASODUR-SG3-thix 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.

- Surfaces that are not to be treated must be covered.
- The technical data sheets of the aforementioned products must be observed prior to starting the work.
- The indicated consumption quantities are calculated values without additions for surface roughness and absorbency, level compensation, and residual material in the container. We recommend a calculated safety addition of 10% on top of the calculated consumption quantities.
- 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 department has confirmed a course of action in writing.
- Hardened product leftovers can be disposed of in accordance with disposal code AVV 150106.

Please observe valid EU safety data sheets!

GIS CODE: RE 1

