



Technical Data Sheet

ASODUR®-SG2-thix

Special pre-primer for vertical surfaces

Art.-No 2 05605



Properties:

ASODUR-SG2-thix is a solvent-free, moisture compatible, two component epoxy resin with the following properties:

- Bonds very well to damp concrete substrates.
- Referred to as "water-vapour-proof"; Class III (low) in accordance with DIN ISO 7783-2 classification.

Areas of application:

ASODUR-SG2-thix is used on vertical and "overhead" surfaces:

- As a primer for damp concrete.
- As effective protection against the formation of osmosis blisters with exposure to moisture from the rear.
- As a special primer for oil contaminated, but previously cleaned concrete substrates.

Technical data:

Basis:	two component epoxy resin
Colour:	light grey
Viscosity:	approx. 70 seconds in a 4 mm DIN flowcup
Mixing ratio:	100:12 parts by weight
Density:	approx. 1.80 g/cm ³
Application-/substrate temperature:	min. approx. +8 °C, max. approx. +30 °C
Foot traffic after:	min. approx. 12 hours at +23 °C
Overcoat after:	approx. 12 - 24 hours at +23 °C

Fully cured:	after approx. 7 days at +23 °C
Min. cure temperature:	+ 8 °C (slow cure)
Consumption:	min. 600 – 1000 g/m ²
Tensile adhesion strength:	B 1.5
Test report:	P 4872-1 Polymer institute, determination of Water vapour diffusion current in accordance with DIN EN 7783-1.
Cleaning:	Immediately after use, clean tools thoroughly with AQUAFIN-Cleanser.
Packaging:	ASODUR-SG2-thix is available in 2.5 kg and 10 kg containers. Components A and B are delivered in a predetermined mixing ratio.
Storage:	18 months when stored dry above +10 °C in the original unopened packaging.

Surface preparation:

Concrete and cement-based substrates must be sound, clean, dry to damp and be free of materials that will impair adhesion. Completely remove weak or poorly bonded coats e.g. release agents, old adhesive, levelling compound residues or old surface finishes and paint residues.

ASODUR-SG2-thix can be used on the following substrates:

- Concrete slabs and cement-based screeds subjected to negative moisture pressure.
- Concrete slabs and cement-based screeds with increased residual moisture*.

ASODUR®-SG2-thix

Note:

Residual moisture in cementitious substrates, dry or damp (in accordance with Def. Rili SIB)*

* "Guidelines for the protection and renovation of concrete structures" part 2, clause 1.2.5" concrete moisture

"dry"

An approximately 2cm deep freshly produced cut out area may not, as a result of drying, become visibly lighter. (Where doubt exists the concrete is considered dry, when it exhibits equilibrium moisture content for the climate 23/50 i.e. dependent on the concrete classification other absolute values serve for "dry").

"damp"

The surface appears matt damp but may not exhibit a shiny film of water. The pore system within the concrete substrate may not be saturated i.e. applied water droplets must be absorbed and the surface must appear matt once again after a short while.

Oil contaminated concrete surfaces:

- Clean with the cleaning agent ASO-R008 in accordance with application instructions..
- Afterwards clean the surface with high pressure water jetting. Remove excess water with a suitable wet vacuum.
- Evenly apply ASODUR-SG2-thix on to the substrate whilst still damp with a brush and roller.

Please observe:

A closed film of water may not be present on the surface of the concrete. The substrate may not dry out – during drying there is a risk that due to continuously rising oil no bond between the special primer and the substrate is achieved.

Dependent on the condition of the substrate to be treated suitable preparation methods should be used such as scabbling, shot blasting, planning, high pressure water jetting, etc. Furthermore the following

minimum requirements are to be fulfilled dependent on the particular substrate:

- Concrete quality: min. C20/25
- Tensile adhesion strength: > 1.5 N/mm²

Important advice:

Oil contaminated substrates are particularly problematic. We recommend that you contact our Technical Services Department.

Product preparation:

Components A (resin) and B (hardener) are delivered in a predetermined mixing ratio. Tip component B into component A. Ensure that the hardener drains completely from its container. Mixing of the components 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 striations); mixing time 3 minutes. The minimum temperature during mixing should be +15 °C. **Do not use mixed material directly from the packaging.** Decant the material into a clean container and mix through thoroughly once again.

Method of application / consumption:

ASODUR-SG2-thix is applied on to the cleaned and still damp substrate in a pore closing layer.

1. On vertical and & overhead surfaces it is advantageous to apply ASODUR-SG2-thix evenly with a shorthair fur-roller, afterwards brush into the substrate with a stiff bristled brush, then backroll with a shorthair fur-roller to ensure even thickness. Broadcast the fresh pre-priming coat with quartz sand (grade: 0.5 – 1.0 or 0.7 – 1.2 mm diameter) to rejection. Once cured carefully remove all non-bound quartz sand before applying primers for further coatings.
 2. On horizontal surfaces it is advantageous to spread ASODUR-SG2-thix evenly with a rubber squeegee, then work into pores with a stiff bristled brush,
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ASODUR®-SG2-thix

followed by backrolling with fur-roller. Broadcast the fresh pre-primer with quartz sand (grain size: 0.5 – 1.0 or 0.7 – 1.2) to rejection. Once cured carefully removed all non-bound quartz sand before applying the primer for the subsequent coating.

Material consumption:

ASODUR-SG2-thix:	depending on the substrate the consumption is between min. 600 – 1000 g/m ² .
Quartz sand:	approx. 1500 g/m ² .

After a waiting time of approx. 12 to 24 hours any additional ASODUR coating system, beginning with the appropriate primer or other floor build up, can be applied.

Health and safety:

Once cured ASODUR-SG2-thix is harmless. The hardener (component B) is corrosive. When using this product the government health and safety protective directive, data sheet M 023, should be observed as well as the advice on the packaging.

Important advice:

- Higher temperatures shorten the pot life. Lower temperatures increase the pot life and curing time. Material consumption is also increased at lower temperatures.
- Protect freshly coated surface from moisture (e.g. rain, melt water) for approx. 4 – 6 hours after application. Dampness produces a white discolouration and/or stickiness on the surface and can impede the curing process. Discoloured and/or sticky surfaces should be taken off e.g. abraded and renewed.
- High temperatures, direct sunlight and drafts can lead to the formation of a skin and impede the necessary granular binding as well as penetration into the substrate.
- When using ASODUR-SG2-thix as a vapour barrier beneath conventional floor finishes such as PVC, linoleum, carpet and parquet, do not use a

solvent based adhesive. This leads to later bulging in the applied finish.

- Protect areas not to be treated by covering.
- Applications that are not clearly explained in this technical data sheet may only be carried out after consultation with written confirmation from the Technical Services Department of SCHOMBURG GmbH.
- Take heed of the technical data sheets for the products mentioned above before starting work.
- Cured product residues are to be disposed of under waste disposal classification 57123 "Epoxy resin".

Please observe a valid EU safety data sheet.

GISCODE: RE1