


# ASODUR-G1270 INDUFLOOR®-IB1270

## Versatile epoxy resin

**Art.-No. 2 06404**

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<b>SCHOMBURG GmbH &amp; Co. KG</b> <b>Aquafinstrasse 2-8</b> <b>D-32760 Detmold</b> 16 2 06404	
EN 15042 <b>ASODUR-G1270</b> Surface protection product - Impregnation	
<b>Principle 1.2</b>	
Capillary water absorption and water permeability	$w < 0.1 \text{ kg/m}^2 \times \text{h}$
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

- two component epoxy resin
- solvent free
- transparent
- low viscosity
- consolidating
- pore blocking
- withstands mechanical loading
- watertight
- resistant to dilute alkalis, acids, aqueous salt solutions, lubricants
- tendency to yellowing

### Areas of application:

- as a pore blocking primer for cement-based surfaces that will be coated with ASODUR systems
- for producing levelling and scratch coats to prepare surfaces for coatings.
- for producing epoxy resin screeds
- as an impregnator and substrate consolidator

### Technical Data:

Basis: two component epoxy resin  
 Colour: transparent

Viscosity: approx.  $130 \pm 20 \text{ mPA}\cdot\text{s}$  at  $+25^\circ \text{C}$   
 Mixing ratio: 100:27 parts by weight  
 Density: approx.  $1,08 \pm 0,02 \text{ g/cm}^3$   
 Pot life <sup>\*)</sup>: approx. 30 minutes  
 Application temperature: min. approx.  $+10^\circ \text{C}$ , max. approx.  $+30^\circ \text{C}$   
 Foot traffic after <sup>\*)</sup>: min. approx. 12 hours  
 Overcoat after <sup>\*)</sup>: approx. 12 hours up to a max. 24 hours after approx. 7 days  
 Fully cured <sup>\*)</sup>: after approx. 7 days  
 Minimum cure temperature:  $+10^\circ \text{C}$   
 Cleaning: Clean work tools thoroughly after use with ASO-R001  
 Packaging: 1, 3, 10 and 30 kg containers. Other sizes are available on request. Components A and B are delivered at a pre-determined mix ratio.  
 Storage: frost free, cool and dry, above  $+10^\circ \text{C}$ , 24 months in the original unopened container. Use opened containers promptly.

<sup>\*)</sup> The values refer to  $23^\circ \text{C}$  and 50% relative humidity.

### Surface preparation:

The area to be treated must be:

- dry, firm, sound and have a good grip
- free from separating and adhesion inhibiting substances such as dust, laitance, grease, oil, rubber marks, paint residues and similar.

Use suitable means to prepare the substrate dependent on its condition such as e.g. sweeping, vacuuming, brushing, planing, scabbling, grit-blasting, shot-blasting. The following criteria are to be observed dependent on the particular substrate:

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## Cementitious surfaces:

- Concrete quality: min. C20/25
- Screed quality: min. EN 13813 CT-C25-F4
- Age: min. 28 days
  - Tensile adhesion strength:  $> 1.5 \text{ N/mm}^2$
  - Residual moisture:  $\leq 4.0\%$  (carbide hygrometer)
  - Protected against moisture acting from the rear
- Render quality: PIIIa/PIIIb
- Age: min. 28 days
  - Tensile adhesion strength:  $> 0.8 \text{ N/mm}^2$
  - Residual moisture:  $\leq 4.0\%$  (carbide hygrometer)
  - Protected against moisture acting from the rear

## Product preparation:

Components A (resin) and B (hardener) are delivered at 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 streaks); mixing time 3 minutes. The minimum temperature during mixing should be  $+15^\circ \text{ C}$ . **Do not use mixed material directly from the packaging.** Decant the material into a clean container and mix through thoroughly once again.

## Notes:

When using the product ensure that it is applied by flooding evenly over the prepared substrate. Irregularities lead to capillary active pores in the cured priming coat and promote the formation of bubbles especially osmosis bubbles. To ensure that the priming coat has filled all pores, apply a second coat. Pore blocking can also be ensured through the

application of a second layer of a dense smoothing mortar. This smoothing mortar is produced from the priming resin with the addition of quartz sand. When adding aggregates (e.g. quartz sand) ensure that the aggregate is dry and also has a temperature of approx.  $+15^\circ \text{ C}$ .

## Production of levelling / scratch coats:

- ASODUR-G1270: 1.0 part by weight
- Quartz sand: approx. 1.0 part by weight (grain: e.g. 0.2 – 0.7 mm)
- ASO-FF: approx. 2 – 3 % by weight

The quartz sand is mixed with the previously mixed and decanted resin and hardener components. Ensure that the liquid and solid components are evenly mixed together. Before application on vertical or steeply sloping surfaces it is recommended that with levelling/scratch coats ASO-FF is added. The addition rate lies between 4 – 5 % by weight dependent on the degree of slope.

## Production of epoxy resin screeds:

- Thickness: approx. 5 – 15 mm
- ASODUR-G1270: 1.0 part by weight
- Quartz sand: 6.8 – 7.0 parts by weight
- Grain: 0.06 – 1.5 mm  $\varnothing$
- Thickness: 15 – 40 mm
- ASODUR-G1270: 1.0 part by weight
- Quartz sand: 9.0 – 10.0 parts by weight
- Grain: 0.06 – 3.5 mm  $\varnothing$

- Compressive strength: approx.  $34 \text{ N/mm}^2$
- Flexural strength: approx.  $9 \text{ N/mm}^2$
- Consumption: approx.  $2.0 \text{ kg/m}^2/\text{mm}$

## Method of application/consumption:

### Priming:

Flood apply ASODUR-G1270 to block pores in one coat. Consumption: approx.  $300 - 600 \text{ g/m}^2$

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## Notes:

- Overcoat the primed area within 12 hours and up to a maximum of 24 hours.
- Primer that has not been broadcast with sand may only be walked on with clean overshoes.
- When a thin following coat is applied with a smooth surface at a thickness < 1.0 mm then broadcasting with sand can be omitted.
- When ASODUR-G1270 has quartz sand broadcast into it, priming must be carried out in two coats. The second coat is to be applied after a waiting time of 12 hours minimum but within a further 12 hours. Broadcast the second layer of primer with quartz sand (grain: e.g. 0.1 - 0.6 mm). Consumption: approx. 0.8 - 1.0 kg/m<sup>2</sup>.

## Note:

- Do not broadcast to excess.

Once hardened carefully remove all non-bound quartz sand before roller applied or flowing coatings, scratch coatings or screeds are applied.

## Levelling/scratch coat:

Firstly prime the floor with ASODUR-G1270.

Consumption: approx 300 - 600 g/m<sup>2</sup>.

The mixed smoothing compound is skim applied in one coat. Consumption of finished smoothing compound: approx. 1.600 g/m<sup>2</sup>/mm.

## 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.
- The bond between the individual coats can be heavily impeded through the influence of moisture or contamination between successive applications.
- When longer waiting times occur between application of the coats or where surfaces already treated with liquid resin must be re-coated after a long time, the surface must be well cleaned and abraded, after which a completely new pore free sealing should be undertaken. It is not sufficient to simply overcoat.
- Protect surface protective systems from moisture (e.g. rain) for approx. 4 - 6 hours after application. Dampness produces a white discolouration and/or stickiness on the surface and can impede the cure. Discoloured and/or sticky surfaces should be taken off e.g. by abrading and renewed.
- Applications that are not clearly explained in this technical data sheet may only be carried out after consultation with and written confirmation from the Technical Services Department of SCHOMBURG.

**Please observe a current EU health and safety data sheet.**

**GISCODE: RE 1**