



## Technical Data Sheet

# ASODUR®-LE

## Lightweight epoxy resin screed

**Art.-No. 2 05797**

<b>CE</b>	
<b>SCHOMBURG GmbH &amp; Co. KG</b> Aquafinstraße 2-8 D-32760 Detmold 13 2 05797	
EN 1504-2 <b>ASODUR-LE</b> Surface protection product - Coating Principle 5.1/6.1	
Capillary water absorption and water permeability	NPD
Tensile adhesion strength by pull-off test	≥ 1.5 (1.0) N/mm <sup>2</sup>
Abrasion resistance	NPD
Impact resistance	Class II
Resistance to strong chemical attack	NPD
Reaction to Fire	Class C <sub>fl</sub> -s1
Hazardous substances	In compliance with 5.3 [EN 1504-2]
NPD = „No Performance Determined“	

### Properties:

ASODUR-LE is a three-component lightweight epoxy resin screed. ASODUR-LE consists of a two-component, solvent free, low viscosity epoxy resin (as binder) and a special lightweight aggregate as the third component. After installation ASODUR-LE has a weight per area of only approx. 1.8 kg/m<sup>2</sup> at 15 mm minimum thickness. In the hardened state ASODUR-LE possesses high abrasion resistance, heat insulating properties and impact sound minimising properties when used with conventional impact sound insulation.

### Areas of application:

ASODUR-LE is used in the renovation of old buildings

- On wooden floors as a substrate for the installation of ceramic tiled finishes in wet areas when in combination with the necessary waterproofing measures.
- On old wooden floorboards as a substrate for ceramic floor tiles, parquet or carpet.
- On cement-based substrates, on asphalt floors etc.

### Technical Data:

	<b>Binder</b>	<b>finished screed</b>
Viscosity:	800 mPa s	
Consistency:		mortar-like
Density*):	approx. 1.03 g/cm <sup>3</sup>	approx. 1.18 g/cm <sup>3</sup>

Mixing ratio:	2 : 1 parts by weight (resin:hardener)	1 : 5 parts by weight (binder:aggregate)
Pot life*):	approx. 40 mins	approx. 45 mins
Curing temperature (Material / substrate):	+ 8 °C – + 30 °C	+ 8 °C – + 30 °C
Foot traffic after*):	approx. 16 hours	approx. 16 hours
Overcoat after*):	approx. 16 hours	approx. 16 hours
Full load after*):	approx. 7 days	approx. 7 days
Compressive strength:	approx. 32 N/mm <sup>2</sup>	
Flexural strength:	approx. 10 N/mm <sup>2</sup>	
Consumption:	approx. 1.18 kg/m <sup>2</sup> /mm thickness	
Cleaning:	Clean tools immediately after use with AQUAFIN-Cleanser.	
Packaging:	30 kg and 60 kg units	
*) at +23 °C		

The packaging contents are composed of:

	30 kg	60 kg
ASODUR-LE (binder)	5 kg	10 kg
Special lightweight aggregate	2 x 12,5 kg	4 x 12,5 kg

Storage: Binder: 18 months when stored frost-free, cool and dry in the original unopened container, above +10° C. Protect from direct sunlight and cold. Storage should be in compliance with the regulations for storing products dangerous to watercourses. Observe EU safety data sheet.

### Surface preparation:

Existing substrates must be load-bearing, dust free and dry. Damaged wooden and floorboard substrates are to be replaced and loose boards are to be secured (e.g. screws etc.). Leave a minimum 5 mm gap between adjacent constructions by the insertion of polystyrene edge strips before the lightweight screed is installed.

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## Product preparation:

### Production of the lightweight epoxy resin screed ASODUR-LE:

5 parts by weight special lightweight aggregate:

1 part binder (ASODUR-LE).

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 approx. 5 minutes. The material temperature during mixing should be +15 °C. Place the determined weight of lightweight aggregate into the forced paddle mixer (e.g. type: Zyklos or UEZ). Subsequently add the previously homogeneously mixed resin and hardener components of the binder. Ensure that the liquid and solid components are evenly mixed. When preparing small quantities of lightweight screed (5 kg units ASODUR-LE binder, 25 kg special lightweight aggregate) place the special lightweight aggregate into a mixing bucket (capacity 60 litres) and add the previously mixed resin and hardener components. Subsequently blend the special lightweight aggregate and binder with a suitable stirrer at approx. 300 rpm (e.g. drill with paddle). Ensure that the liquid and solid components are evenly mixed. Decant the material into a clean container and mix through thoroughly once again.

### Method of application / consumption:

#### 1. Priming:

ASODUR-GBM is evenly applied by roller on to the substrate in a single coat to improve the workability and adhesion.

Consumption:

approx. 300–500g/m<sup>2</sup>/working step.

#### 2. Apply the mixed lightweight screed onto the freshly primed substrate and strike over laths to the correct thickness.

#### 3. Thoroughly compact the lightweight screed and then level off.

Trowel the surface of the installed ASODUR-LE lightweight screed once hardened, closing off surface pores, in readiness for floor coverings.

Material recommendations:

- Mix ASODUR-GBM with 0.1 - 0.6 mm quartz sand at a ratio of 1 : 1 by weight and evenly trowel apply filling pores.

Consumption: approx. 1.6 kg/m<sup>2</sup>/mm thickness

- Evenly apply two coats of AQUAFIN-2K/M by brush or trowel.

Consumption: approx. 3.5 - 4.5 kg/m<sup>2</sup>.

Follow the Product Data Sheets of these additional products.

### Important advice:

- When ASODUR-LE is installed on impact sound deadening insulation, the following minimum thicknesses are necessary - irrespective of the compressibility of the insulation used:

Compressibility of the impact sound deadening insulation:	max. 1 mm	max. 3 mm
Min. layer thickness ASODUR-LE:	25 mm	30 mm

Where ceramic tiles are to be installed, follow DIN 18560-2!

- If ASODUR-LE is used as a thin load distribution layer on LEWIS dovetail sheeting, ensure that during installation the deflection of the LEWIS dovetail sheeting is avoided by using suitable load distribution such as e.g. shuttering boards. Make sure the lightweight screed is optimally compacted.
- When the screed is bonded at 15 mm, the tile size should not be greater than 40 x 40 cm. Larger formats would require installation to DIN 18560 part 2 i.e. a separating layer and a thickness of 25 mm ASODUR-LE.
- Ensure the installation site is ventilated and avoid direct sunlight.
- Do not add any additives to the screed.
- 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.

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- Cured product residues are to be disposed of under waste disposal classification 57123 "Epoxy resin".

GISCODE: RE 1

