



## Technical Data Sheet

# ASODUR®-LE

## Lightweight epoxy resin screed

**Art.-No 2 05797**

### 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. 17 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:

	Binder	finished screed
Viscosity:	800 mPa s	
Consistency:		mortar-like
Density*):	approx. 1,10 g/cm <sup>3</sup>	approx. 1,15 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. 26 N/mm <sup>2</sup>	
Flexural strength:	approx. 13 N/mm <sup>2</sup>	
Consumption:	approx. 1,15 kg/m <sup>2</sup> /mm thickness	

Cleaning: Clean tools immediately after use with AQUAFIN-Reiniger.  
 Packaging: 30 kg, 60 kg and 450 kg units

The packaging contents are composed of:

	30 kg	60 kg	450 kg
ASODUR-LE (binder)	5 kg	10 kg	75 kg (2 x 25 kg A 1 x 25 kg B)
Special lightweight aggregate	25 kg	2 x 25 kg	15 x 25 kg

Storage: Binder: 18 months when stored cool and dry in the original unopened container. Storage should be in compliance with the regulations for storing products dangerous to watercourses. Observe EU safety data sheet.

\*) at +23 °C

### 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.

### Product preparation:

Production of the lightweight epoxy resin screed binder ASODUR-LE: 1 part by weight special lightweight aggregate: 5 parts 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

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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) To improve the workability, prime the substrate prior to application with ASODUR-LE (binder).
- 2) Apply the mixed lightweight screed onto the freshly primed substrate and strike over laths, compact and smoothen. Consumption: approx. 17.25 kg/m<sup>2</sup> at 15 mm minimum compacted thickness

## Health and safety:

Once cured ASODUR-LE 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:

- If ASODUR-Lightweight screed is installed over impact sound insulation, a minimum thickness of 20 mm is required. Furthermore ensure that the compressibility of the impact sound insulation used is < 1 mm.
- If ASODUR-LE is used as a thin load distribution layer on LEWIS dovetail boards, ensure that during installation the deflection of the LEWIS dovetail boards is avoided by using suitable load distribution such as e.g. shuttering boards.
- 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 GmbH Systembaustoffe.
- Cured product residues are to be disposed of under waste disposal classification 571 23 "Epoxy resin".

GISCODE: RE 1