

ASODUR®-LE

Lightweight epoxy resin screed



Material number	Contents	Unit of quantity	Packaging	Colour
205797003	24	KG	Set	brown

Product features

- 3 component epoxy resin lightweight screed mortar
- SR-C30-F10 in accordance with DIN EN 13813
- Pot life of ca. 45 minutes
- Foot traffic after ca. 16 hours
- Walkable after ca. 16 hours
- Layer thicknesses of 15 - 50 mm (depending on the construction method)

Advantages

- Particularly thin-layered screed construction
- High flexural strength for load-bearing constructions in the refurbishment sector
- Low surface weight, particularly for wooden bar structures

Areas of application

- For producing thin-layered lightweight screeds in restoration, modernisation and renovation
- On wooden constructions, timber beam ceilings or substrates that permit a low load
- For producing bonded lightweight screed constructions on separating layer or insulating layer
- For accommodating ceramic tiles and boards, natural stones or bonded waterproofing
- For unheated constructions
- For interior

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Existing test certificates

- Reaction to fire
- Conformity DIN EN 13813
- French cert. VOC
- AgBB certificate
- Belgian cert. VOC
- EMICODE licence

Technical Data

Material properties

Product components	3 component system
Base material	Epoxy resin and special lightweight aggregate
Consistency	Mortar-like
Density, binder	approx. 1.09 g/cm ³
Surface weight	Approx. 19.8 kg/m ² ± 5 % (with layer thickness of 15 mm)
Density, ready to use product (ISO 1183-1)	approx. 1.32 g/cm ³
Flexural strength	approx. 10 N/mm ²
Compressive strength	approx. 30 N/mm ²
Viscosity, binder [value]	approx. 400 mPa*s
Viscosity, ready to use product	Mortar-like
Classification of the reaction to fire in accordance with DIN EN 13501-1	Efl

Mixing

Mix ratio, component A	100 weight proportion
Mix ratio, component B	49 weight proportion
Mix ratio, addition	5 weight proportion
Mixing time	approx. 5 minutes

Application

Substrate temperature	from 10 °C to 30 °C
Pot life	approx. 45 minutes
Consumption pro m ² and cm layer thickness	approx. 13.2 kg/m ²
Mixing method, machines, tools	Drill with stirrer Forced paddle mixer (e.g. type Zyklus or UEZ)
Foot traffic after	approx. 16 hours
Application temperature	from 10 °C to 30 °C
Overcoat after	approx. 16 hours
Hardening time / full resilience	approx. 7 days
Minimum layer thickness, footfall sound insulation (max. 1 mm indentation dimension)	25 mm
Minimum layer thickness, footfall sound insulation (max. 3 mm indentation dimension)	30 mm
Minimum layer thickness	≥ 15 mm

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Application technology

Aids/tools

- Colour roller
- Stirrer (approx. 300 rpm)
- Gauge
- Plasterer's darby
- Flat trowel
- Edging strips

Manual processing

- Can be painted as a primer using paint rollers
- Can be applied as a mortar in the screeding process

Suitable substrate

- Cement screed (CT)
- Wooden floor
- Raised floors
- Concrete
- Half-beam structures

Suitable covering

- Ceramic with low water absorption < 0.5% (porcelain stoneware)
- Natural stone materials that are sensitive to discolouration and not translucent
- Floor coverings
- Floor coatings

Substrate preparation

Requirement for substrate

1. Load-bearing
2. Dry
3. Free of adhesion inhibiting substances

Preparing the surface

1. Replace damaged wood/board substrates.
2. Loose floor boards must be fastened professionally (e.g. by screwing).
3. Produce a gap between adjoining building components of min. 5 mm by inserting RD-SK50.
4. For composite constructions and prime small surfaces with ASODUR-SG3-superfast and large surfaces with ASODUR-SG3.

Usage

Mixing

1. The (ideal) material temperature during the mixing procedure is +15 °C.
2. Add the hardener to the resin.
3. The hardener must run completely out of the container.
4. Mix thoroughly with the mixer until a homogeneous consistency.
5. The hardener must be distributed evenly.
6. The mixing time is ca. 5 minutes.
7. Add the correct quantity of special lightweight aggregate to the forced paddle mixer (e.g. type: Zyklos or UEZ).
8. Add the mixed resin binder.
9. Use a suitable mixer to mix the special lightweight screed and the binder.
10. Mix the liquid and solid components evenly.
11. Decant the mixture and stir again before application.

Application

1. Apply the material to the prepared substrate and distribute it evenly.
2. Compact the applied lightweight screed covering the whole area and across the entire cross-section.
3. Use gauges to strike off to the correct height.
4. Smooth the lightweight screed that was applied.

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Cleaning tools

Immediately after use, clean tools with ASO-R001.

Storage conditions

Storage

Store in a frost-free, cool and dry place. 5 years in the original container. Protect against direct sunlight and cold (min. 10 °C). Storage must be performed in accordance with the directive on substances that are harmful to water. Observe the safety data sheet!

Disposal

Hardened product leftovers can be disposed of in accordance with disposal code AW 15 01 06.

Notes

- The indicated consumption quantities are calculated values without additions for textured surface roughness and absorbency, level compensation, and residual material in the canister. We always recommend a calculated safety addition of 10% on top of the calculated consumption quantities.
- Higher temperatures shorten the pot life. Lower temperatures increase the application and hardening times. The rate at which material is consumed also increases at lower temperatures.
- The bonding between the individual layers can be strongly disrupted between the individual application steps due to the effects of dampness and contamination. Coating work requires a substrate temperature of at least 3 °C above the dew point temperature.
- Ventilation of the installation site is essential, avoid direct sunlight.
- Do not add any additives and substances!
- Synthetic resin products and surface protection systems must be protected from moisture (e.g. rain or condensation water) for approx. 4-6 hours after application. Moisture causes a white colour and/or stickiness on the surface and can cause problems during hardening. Discoloured and/or sticky surfaces must be removed and reworked, e.g. through grinding or shot blasting.
- If ASODUR-LE is laid as a floating construction, minimum film thicknesses are required based on the indentation dimensions of the impact sound insulation used (see explanations). Observe DIN 18560-2 for subsequent tiling.
- Observe the technical data sheets of the products mentioned before starting work.

Planning, inspection of substrates and building site circumstances, laying, grouting and subsequent care of the work must be done in accordance with the relevant DIN standards and recognised rules of technology (e.g. the ZDB sheets of the Zentralverband Deutsches Baugewerbe e.V.) in the latest version.

Observe applicable safety data sheet!

GISCODE: RE 30

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