ASODUR®-GBM

Priming, waterproofing and mortar resin

Material number	Contents	Unit of quantity	Packaging	Colour
205751101	1	KG	Combination packs	Transparent
205751102	3	KG	Combination packs	Transparent
205751103	10	KG	Combination packs	Transparent
205751104	18	KG	Combination packs	Transparent

Product features

- Two component
- Multi-functional
- Chemically resistant
- Low viscosity

Advantages

- System component for bonded waterproofing
- Multi-functional application
- Universally applicable

Areas of application

- As a primer for critical substrates
- As a primer on absorbent and lightly sanding substrates
- As a binder for epoxy resin levelling compounds and epoxy resin screeds

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Technical Data

Material properties

Product components	2 component system
Base material	Epoxy resin
Consistency	Liquid
Dichte, verarbeitungsfertiges Produkt (ISO 1183-1)	approx. 1.09 g/cm³
Flexural strength (DIN EN 196-1)	approx. 35 N/mm²
Compressive strength	approx. 70 N/mm²
Tensile adhesion strength (concrete, dry until matt damp)	≥ 1.5 N/mm²
Viscosity, ready to use product [value]	approx. 640 mPa*s
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	50 weight proportion
Mix ratio, addition of ASO-FF levelling / scratch coat	from 0.02 weight proportion to 0.03 weight proportion
Mix ratio, addition of levelling / scratch coat quartz sand	1 weight proportion
Mix ratio epoxy resin mortar 11-150 mm (quartz sand Ø 0.06-3.5 mm)	approx. 8.3 weight proportion
Mix ratio epoxy resin mortar 5-30 mm (quartz sand Ø 0.06-1.5 mm)	approx. 8.3 weight proportion
Mixing time	approx. 3 minutes

Application

Substrate temperature	from 10 °C to 35 °C
Max. relative humidity	80 %
Pot life	approx. 35 minutes
Minimum reaction temperature	min. 10 °C
Mixing method, machines, tools	Drill with stirrer
Consumption	approx. 0.30 - 0.50 kg/m²
Second application step after waiting time	approx. 12 hours
Overcoat (min.)	after 12 hours
Consumption per mm layer thickness (levelling and scratch coat with quartz sand)	approx. 1.6 kg/m²
Foot traffic after	approx. 12 hours
Consumption (epoxy resin screed 11-150 mm per mm layer thickness)	approx. 2 kg/m²
Consumption (epoxy resin screed 5-30 mm per mm layer thickness)	approx. 2 kg/m²
Application temperature	from 10 °C to 35 °C
Overcoat (max.)	to 24 hours
Hardening time / full resilience	approx. 7 days

Application technology

Aids/tools

- Stirrer (approx. 300 rpm)
- Rubber lip slider
- Circular cage
- Nylon fur roller (6mm) with textured polyamide cover

Manual processing

- distributable with rubber lip slider
- Distributable with nylon fur roller

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Substrate preparation

Requirement for substrate

1. Load-bearing
2. Firm
3. Grippy
4. Dry
5. Free of adhesion inhibiting substances
6. Protected from the effects of moisture penetration on the rear side

Measures for substrate preparation

Substrate preparations must be carried out in compliance with DIN EN 14879-1:2005, 4.2 et.seq.

Substrate quality class

	Concrete	Screed	Plaster
Quality	at least C20/25	at least CT-C25-F4 in accordance with DIN EN 13813	at least P IIIa/P IIIb
Tensile adhesion strength		≥1.5 N/mm²	approx. 0.8 N/mm²
Age		at least 28 days	
Moisture content			<4% (CM method)

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. 3 minutes.
7. Decant the mass into a clean bucket.
8. Stir meticulously again.
9. If aggregates (e.g. quartz sand) are mixed in, make sure that these also have a material temperature of approx. +15 °C.

Production and application of levelling compound/scratch coat material:

1. Prime the substrate with ASODUR®-GBM.
2. The quartz sand (Ø 0.1-0.6 mm) is mixed into the previously homogeneously mixed and re-potted resin and hardener component (mix ratio 1:1).
3. Mix the liquid and solid components evenly.
4. For levelling/scratch coats on vertical and sloping surfaces, we recommend the addition of 2-3% wt. ASO®-FF.
5. Apply the mixed levelling/scratch coat in a single application step using the scratch filler method.
6. Sprinkle the still fresh levelling/scratch coat with quartz sand (Ø 0.1 - 0.6 mm).
7. Consumption of mixture for scratch coat approx. 1.6 kg/m² per mm layer thickness

Producing and application of the epoxy resin screed (layer thickness from 11 to 150 mm)

1. Add the quartz sand (Ø 0.06 - 3.5 mm) in the correct quantity (3:25) to the forced paddle mixer (e.g. type: Zyklos or UEZ).
2. Then add the mixed resin mixture.
3. Mix the liquid and solid components evenly.
4. Prime ASODUR®-GBM using the roller method.
5. Consumption approx. 0.3 kg/m²
6. The mixed screed is applied to the still fresh primer in a layer thickness of at least approx. 5 mm, drawn off with gauges and mechanically smoothed.
7. Consumption of screed mix approx. 2 kg/m² per mm layer thickness

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Producing and applying epoxy mortar as a levelling and coving mortar

1. Stir the quartz sand (Ø 0.06-1.5 mm) homogeneously into the mixed ASODUR®-GBM in a mix ratio of 3:25.
2. Prime the substrate with ASODUR®-GBM.
3. Apply the mortar while still wet using trowel techniques, ensuring even compaction.
4. Observe the minimum film thickness of 3 mm.

Epoxy resin coating

1. Apply the screed with gauge rakes and smooth mechanically (use a blade or finishing trowel).
2. Apply the mixed screed to the primed surface in a minimum film thickness of approx. 3 mm.

Cleaning tools

Immediately after use, clean tools with ASO-R001.

Storage conditions

Storage

Store in a frost-free, cool and dry place. At min. 10 - 25 °C for 18 months in the original canister. Promptly use opened canister.

Disposal

- Product leftovers can be disposed of in accordance with disposal code AVV 08 04 09 and AVV 08 01 11.
- Hardened product leftovers can be disposed of in accordance with disposal code AVV 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.
- If longer waiting times arise between the individual application steps or surfaces that have already been treated with liquid resin are coated again after an extended waiting time, the old surface must be well cleaned and thoroughly ground. Then apply a complete pore-free new coating.
- Arrange for proper ventilation during the drying and hardening phases.
- 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.
- For vertical surfaces use ASODUR®-GBM with the addition of ASO®-FF.
- Observe the technical data sheets of the products mentioned before starting work.
- Applications that have not been clearly mentioned in this technical data sheet may only be carried out after the technical service department of SCHOMBURG GmbH has been consulted, and after the said department has approved of such a course of action in writing.
- For detailed information on application, read and observe supplementary technical information no. 19 "Applying ASODUR® products".

The recognised standards of construction engineering, the relevant guidelines and current regulations must be observed.

Observe applicable safety data sheet!

GISCODE: RE 30

ASODUR®-GBM

Annotations

Conformity / Declaration / Verification

CE
1119

SCHOMBURG GmbH & Co. KG
Aquafinstraße 2–8
D-32760 Detmold (Germany)
06
205751

EN 1504-2
ASODUR-GBM
Surface protection material – Impregnation

Principle 1.2

Capillary water absorption and water permeability	$w < 0.1\ kg/m^2 \times h^{0.5}$
Penetration depth	Class I < 10 mm
Pull-off test for assessment of adhesion	≥ 1.5 (1.0) N/mm²
Reaction to fire	class E
Hazardous substances	Compliance with 5.3 of EN 1504-2