



Technical Data Sheet

ASODUR®-GBM

Primer, sealer and mortar resin

Art.-No 2 05751

CE 1119	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 · D-32760 Detmold 06 2 05751	
EN 1504-2 ASODUR-GBM Surface protection product - Impregnation	
Principle 1.2	
Capillary water absorption and water permeability	w < 0.1 kg/m ² × h ^{0.5}
Penetration depth	Class I < 10 mm
Tensile adhesion strength by pull-off test	≥ 1.5 (1.0) N/mm ²
Reaction to Fire	Class E
Dangerous substances	In compliance with 5.3 of EN 1504-2

- Two component
- Solvent free
- Transparent
- Low viscosity
- Watertight
- Low WDD value (to DIN EN ISO 7783-1 = 1.2 g/m² × d
- Resistant to alkalis, acids, aqueous salt solutions, grease and fuels

Areas of application:

- For the sealing of cement-based surfaces e. g. production areas, warehouses, ramps
- For the priming of cement-based areas which will be coated with ASODUR or INDUFLOOR products
- For the production of levelling and scratch coats for surface preparation for coating measures
- For producing epoxy resin screeds
- As a casting resin for closing screed resins.

Technical Data:

Basis:	2 component epoxy resin
Colour:	transparent
Viscosity:	app. 640 m Pa s (± 80) at +23° C
Mixture ratio:	2:1 parts by weight
Density:	1.09 g/cm ³ at +23° C
Pot life:	25 - 35 min. at +23° C
Traffic after:	16 hrs. at +23° C
Overcoat after:	16 hrs. up to max. 24 hours at +23° C

Fully cured:	7 days at +23° C
Cure temperature (material/substrate):	+8° C to max. +30° C
Compressive strength:	approx. 65 N/mm ²
Flexural strength:	approx. 30 N/mm ²
Tensile adhesion strength:	Concrete failure 1.5
Cleaning:	Clean tools immediately after use with AQUAFIN-Cleanser.
Packaging:	ASODUR-GBM is available in 3 kg, 10 kg and 18 kg containers. Resin and hardener are supplied at a predetermined ratio.
Storage:	frost-free, 18 months, when stored dry and cool above +10° C in the original unopened packaging.

Note:

With frequent temperature change ASODUR-GBM can crystallize out. It is then necessary to warm up the product in water bath at +50° C to +60° C in order to use it after approx. 2 hours without restriction.

Substrate preparation:

The cement-based substrates should be:

- dry, sound and have a good key
- free from separating and adhesion inhibiting substances such as e.g. dust, laitance, grease, rubber marks, paint residues etc.
- protected from the effects of moisture from the rear.

Dependent on the condition of the substrate use suitable methods of preparation such as e.g. sweeping, vacuuming, brushing, planing, scabbling, sand-blasting, high pressure water jetting, shot blasting, torching.

In addition the following criteria are to be fulfilled dependent on the particular substrate:

Cementitious areas:

Concrete quality:	min. C20/25
Screed quality:	min. EN 13813 CT-C25-F4
Render quality:	P III
Age:	min. 28 days

ASODUR®-GBM

Tensile adhesion strength:	≥ 1.5 N/mm ²
Residual moisture:	< 4% (carbide hygrometer method)

Product preparation:

Component A and component B are delivered at a predetermined mixing ratio. Tip component B into component A. Ensure that the hardener drains completely from its container. Mix both components together with a suitable mixer at 300 rpm. It is important to ensure the hardener is evenly dispersed. Stir until homogenous (free from streaks); mixing time approx. 3 minutes. The minimum temperature during mixing should be +15° C. **Do not use mixed material directly from the packaging.** Decant the material into a clean container and mix through thoroughly once again.

Notes:

During product application, ensure that the material is evenly "flooded" over the prepared substrate. Irregularities lead to capillary active pores in the cured primer film and encourage the formation of bubbles, especially osmosis bubbles. To ensure a pore-free primer coat, apply a second coat. Freedom from pores can also be ensured by applying a waterproof smoothing compound as the second coat. This smoothing compound is produced by adding quartz sand to the primer resin. When blending with aggregates (e.g. quartz sand) ensure it is dry and also at a temperature of +15° C.

Production of levelling / scratch coats:

ASODUR-GBM:	1.0 part by weight
Quartz sand:	1.0 - 1.5 parts by weight
(Grain size:	0.1 - 0.6 or 0.2 - 0.7 mm)
Suitable filler:	approx. 2 - 3% by weight

The quartz sand is mixed into the homogenous resin hardener mixture. 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 a suitable filler 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 to 15 mm (single coat build-up)
ASODUR-GBM:	1.0 part by weight
Quartz sand:	6.5 - 7.0 parts by weight
Grading *):	0.06 - 1.5 mm diameter
Thickness:	> 15 mm to 30 mm (single coat build-up)
ASODUR-GBM:	1.0 part by weight
Quartz sand *):	9.0 - 10.0 parts by weight
Grading:	0.06 - 3.5 mm diameter
Compressive strength:	approx. 65 N/mm ²
Flexural strength:	approx. 30 N/mm ²
Consumption:	approx. 1.9 kg/m ² /mm

The quartz sand is filled into a batch mixer (e. g. type Zyklus or UEZ). Subsequently add the previously homogeneously mixed resin and hardener components. Ensure that the liquid and solid components are evenly mixed together.

*) balanced particle size distribution

Note:

Greater thicknesses are possible by multi-layer build-up. It is absolutely essential that material is compacted between layers at the given thickness.

Methods of application / consumption:

Sealing:

ASODUR-GBM is rolled, sprayed or painted on the surface in 2 coats.
Consumption approx. 300 - 500 g/m² per coat.
For production of slip resistant surface structures broadcast quartz sand (grain 0.5 - 1.0 or 0.7 - 1.2 mm) into the wet sealing between the two coats whilst still wet.
Consumption 1 - 1.5 kg/m².

Priming:

ASODUR-GBM is rolled, sprayed or painted on the surface in one coat.
Consumption approx. 300 - 500 g/m².
Broadcast with quartz sand (grain 0.1 - 0.6 or 0.2 - 0.7 mm) into the wet priming coat.
Consumption 0.8 - 1.0 kg/m².

ASODUR®-GBM

Thoroughly remove all unbonded broadcast material once the coating has cured and before the application of the finish coat.

Levelling / scratch coat:

Firstly prime the surface with ASODUR-GBM.
Consumption: approx. 300 - 500 g/m².
The smoothing compound prepared as described above is scratched on the surface in one coat.
Consumption: approx. 1.6 kg/m² per mm thickness of layer.

Epoxy resin screed:

Firstly prime the surface with ASODUR-GBM.
Consumption: approx. 300 - 500 g/m².
The epoxy resin screed prepared as described above is applied on the surface in a minimum thickness of 5 mm and struck off and smoothed subsequently.
Consumption of the screed admixture:
approx. 2.0 kg/m² per mm layer thickness.

Health & Safty:

Once cured ASODUR-GBM is considered harmless. The hardener (component B) is corrosive. In any case the government health and safety protective directive and the advice on the packaging should be observed.

Important advice:

- Higher temperatures shorten the pot life. Lower temperatures lengthen the pot life and setting time. Material consumption also increases at lower temperatures.
- The bond between individual coats can be impeded through the influence of moisture or contamination.
- When longer waiting times occur between application of coats or where surfaces already treated with liquid resin must be re-coated after a long time, the surface must be cleaned and abraded thoroughly. Then a completely new pore free coating should be undertaken. It is not sufficient to simply overcoat.
- Surface protecting systems must be protected from moisture (rain, melt water) for 4 - 6 hours after their application. Dampness produces a white discolouration and / or a stickiness on the surface.

- 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.
- Disposal key:
Liquid product residues: EAK 08 01 11 paint and lacquer waste, which contains organic solvents or other hazardous substances.
Cured product residues: EAK 17 02 03 plastics.

Please observe a valid EU safety data sheet.

GISCODE: RE 1