SCHOMBURG GmbH & Co. KG
Aquafinstrasse 2–8
D-32760 Detmold - Germany
phone +49-5231-953-00
fax +49-5231-953-108
mail export@schomburg.de
web www.schomburg.de/en

SCHOMBURG Building Product Systems

Technical Data Sheet

ASODUR®-GBM

Art.-No 2 05751

Ground Coating-, Coating- and Mortar Resin

Properties:
ASODUR-GBM is a solvent-free transparent two component low viscous epoxy resin free from solvents. In hardened condition, ASODUR-GBM has a high hardness and abrasion resistance. It is waterproof and resistant to diluted bases, acids, aqueous salt solutions, lubrication oils and petrol. ASODUR-GBM tends to strong yellowing.

Areas of application:
ASODUR-GBM is used for:
- the sealing of cement-based surfaces e. g. production areas, warehouses, ramps
- the priming of cement-based areas which will be coated with ASODUR- or ASOFLOOR-products
- the production of levelling and scratch coats for surface preparation for coating measures
- the producing epoxy resin screeds e. g. in the chemical or heavy industry.

Technical Data:

Basis:	Epoxy resin
Colour:	transparent
Viscosity:	app. 640 m Pa s (± 80) at +23° C
Density:	1.09 g/cm³ at +23°C
Mixture ratio:	2:1 parts by weight
Pot life:	25 - 35 min. at +23° C
Minimum cure temperature:	+8° 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
Abrasion:	3 - 5 cm³/50 cm² (Böhme)
Compressive strength:	67 N/mm²
Flexural strength:	32 N/mm²
Tensile adhesion strength:	Concrete failure
Cleaning:	Clean tools immediately after use with AQUAFIN-Cleanser.
Packaging:	ASODUR-GB is available in 3 kg, 10 kg, 18 kg and 200 kg containers; and in barrels of 2 x 200 kg resin 1x 200 kg hardener compound. Resin and hardener are in the predetermined mixture ratio.
Storage:	18 months, when stored dry and cool above +10° C in the original unopened packaging. Regard the regulations for the storage of water endangering goods. Regard EC data sheet.

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.

Surface preparation:
The cement-based substrates should be:
- dry, sound and have a good grip
- free of grout, dust, loose parts, and material which deter the adhesion
- protected from the effects of moisture from the rear.

If necessary: sand blasting, shot blasting, milling or rubbing down of the substrate.

Cementitious areas:	
Concrete quality:	min. C20/25
Screed quality:	min. EN 13813 CT-C25-F4
Plaster quality:	P III
Age:	min. 28 days
Tensile adhesion strength:	≥ 1.5 N/mm
Residual moisture:	< 4%

ASODUR®-GBM

Product preparation:
Component A and component B are delivered in the 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 300 rpm. It is important to ensure the hardener is evenly dispersed. Stir until the mix homogenous; mixing time approx. 5 minutes. The minimum temperature during mixing should be +15° C.
Decant the mixed material into a clean container and mix through thoroughly once again. Aggregates like quartz sands should be dry and should have a temperature of +15C.

Production of levelling / scratch coats:

ASODUR-GBM:	1.0 part by weight
Quartz sand:	1.0 - 15 parts by weight
(Grain size:	0.1 - 0.3 or 0.2 - 0.7 mm)

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 ASO-Stellmittel 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
ASODUR-GBM:	1.0 parts by weight
Quartz sand:	7.5 - 10 parts by weight
Grading:	0 – 1.5 mm
Thickness:	> 15 mm
ASODUR-GBM:	1.0 parts by weight
Quartz sand:	12.5 to 15.0 parts by weight
Grading:	0 – 3.0 mm

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

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. 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 - 0.4 or 0.2 - 0.7 mm) into the wet priming.
Consumption 0.8 - 1.0 kg/m².
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 spactling 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 strike off and smoothen subsequently.
Consumption of the screed admixture:
approx. 2.0 kg/m² per mm layer thickness.

Health and safty:
Once cured ASODUR-GBM is harmless. The hardener (component B) is caustic. In any case the government health and safety protective directive and the advice on

the packaging should be observed. It may also cause some difficulties in hardening. In that case the surface should be abraded and renewed. Cured product residues are to disposed of under the waste disposal code 57 123 (epoxy resin).

Important advice:
Sealing:
The bond between individual coats can be impeded through the influence of dampness or contaminations. 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.
Higher temperature shorten the pot life. Low temperatures increase the pot life and curing time. Material consumption is also increased at lower temperature.
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.

Please observe a valid EU safety data sheet.

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