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SCHOMBURG Building Product Systems

Technical Data Sheet

ASODUR®-EP/FM

Art.-No. 2 05792

Epoxy Polyurethane Resin Joint Filler

Properties:

ASODUR-EP/FM is a solvent-free flexible two component epoxy-polyurethane liquid resin.
In cured condition ASODUR-EP/FM is resistant to water and weathering, resistant to waste water, sea water, diluted bases and acids, brine, lubricants and fuel.
At dry wear ASODUR-EP/FM is resistant to temperature changes in the range of -30 °C to +100 °C. However, the continuous use should be limited to temperatures of -10 °C to +50 °C as the elasticity of the material is depending on the temperature.

Areas of application:

ASODUR-EP/FM is used as self levelling mortar for mechanically highly stressed interior surfaces like traffic lanes in storage and production rooms and for the preparation of anti capillary layers in the construction of swimming pools.

Technical Data:

Basis:	Liquid epoxy polyurethane resin
Colour:	grey (tends to yellowing)
Viscosity:	370 dPa s (+23 °C)
Mixing ratio:	8:1 parts by weight
Density:	1.35 g/cm³
Processing time:	40 min. at + 20°C 15 min. at + 30°C
Minimum hardening temperature:	+ 8 °C
Traversable:	After 16 hrs. at + 23 °C
Completely hardened:	After 7 days at + 23 °C
Shore A hardness:	80
Bonding strength:	> 1.5 N/mm²
Joint movement:	< 3%
Top coating:	not possible
Cleaning of the tools:	Clean immediately after use with AQUAFIN-Cleanser.
Delivery:	ASODUR-EP/FM is deliverable in bins of 4 kg, resin and hardener are in the concerted mixing ratio.
Storage:	Storable in closed original bins for a period of 12 months in cool and dry rooms. Regard the regulations for the storage of water endangering goods. Regard EC data sheet.

Surface preparation:

The joints to be processed have to be

- dry, able to bear load and fine gripping
- free of grout, dust, loose parts, fat paint and other material, which may act as parting agent.
- Protected against moisture from the backside

If necessary: sand blasting, ball blasting, milling or rubbing down of the ground.

Cemented areas:	
Concrete class:	min. B 25
Class of screed:	min. ZE 30
Class of plaster:	MG III
Age:	min. 28 days
Adhesive strength:	≥1.5 N/mm²
Residual moisture:	< 4%

Product preparation:

Component A and component B will be delivered in the corresponding mixing ratio. Component B will be added to component A. It is important that the hardener is added completely to the component A.
The mixing will be carried out with a drilling device at 300 rpm. It is important that the hardener is distributed completely. The mixing will be continued until a homogenous mass develops. Mixing time approx. 5 minutes.
The temperature of the material while stirring should be around +15 °C.

ASODUR®-EP/FM

The mixed material is filled into another vessel and stirred thoroughly again.

Method of application / consumption:

1. Repairing of the joints. Joint edges have to be dry. If necessary abrasion of the joints and repairing with ASODUR-EK or ASODUR-EMB. Subsequently the dust has to be removed thoroughly.
2. Bedding of the joint. Joint is bedded with a closed cell round material and fixed to the suitable height. We recommend ASO-Vorfüllmaterial.
3. Pre-treatment of the joint edge. In case of high mechanical loading a pre-treatment of the joint edges with ASODUR-GBM is necessary. Waiting time between priming and joint filling is 1 - 6 hours at +23 °C.
4. Filling of the joint. The homogenously mixed ASODUR-EP/FM is poured into the joints.

Joint dimensions and consumption:

The durability of a joint sealing is depending on the correct dimensions of the joint. The joint width is determined in the way that the maximum expansion material does not exceed 3% over the long term.

Joint width [mm]	Joint depth [mm]	Consumption [g/m]
6	6	50
8	8	90
10	10	140
12	10	170
15	10	210
20	12	330
20	15	410
50	20	1350

Health and safety:

ASODUR-EP/FM is physiologically harmless after complete hardening. The hardener (component B) is caustic. In any case the general protective regulations of the vocational league and the instructions on the bins have to be regarded.

Important advice:

Hardened material has to be disposed with the waste material number 57 123 (epoxy resin).