




## Technical Data Sheet


# ASODUR®-EV200

Art.-No. 2 06436

**Three-component, solvent-free, high performance, free-flowing epoxy grout**

	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2–8 D-32760 Detmold 17 2.06436	
DIN EN 1504-6:2006-11 <b>ASODUR-EV200</b> Anchoring product	
Pull out strength Chloride ion content Glass transition temperature Creep under tensile load Reaction to fire Dangerous substances	≤ 0,6 mm ≤ 0,05 % ≥ 45 °C ≤ 0,6 mm E NPD

NPD = „No Performance Determined“

	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2–8 D-32760 Detmold 19 2.06436	
EN 13813 <b>ASODUR-EV200</b> Synthetic resin screed mortar for indoor application	
Reaction to fire Release of corrosive substances Compressive strength Flexural strength Resistance to wear Tensile strength Impact resistance	Class E SR C80 F30 ARO,5 B2,0 IR1,6

- Easy to mix
- Solvent free
- Low shrinkage
- Good flowability
- Rapid strength development
- High mechanical strength and chemical resistance
- Good bond to concrete and steel
- Good adhesion on matt damp substrate
- Thicknesses from 10 mm to 200 mm
- Waterproof from 20 mm to 5 bar
- Fire classification B (DIN EN 13501) for thicknesses up to 75 mm
- Test results in accordance with DIN EN 1504-6 and DIN EN 13813
- Can be over-coated with ASODUR coating systems
- Suitable for grouting Dresden Combibord (DDCB)

### Areas of application:

- Machine grouting
- Anchor grouting
- Grouting of gutters
- Grouting for piers and support structures
- Grouting of support and railing posts
- Surface application as load distribution layer on difficult substrates
- Filling cavities, e.g. swimming pool construction
- For indoor and outdoor use

### Technical Data:

Basis:	3-comp. Epoxy resin
Consistency:	flowable grout
Colour:	grey
Mixing density*:	ca. 1,9 g/cm <sup>3</sup>
Material consumption:	ca. 1,9 kg / m <sup>2</sup> per mm thickness
Mixing ratio:	Comp. A : B : C = 5,04 : 1,66 : 23,3 parts by weight
Ambient and substrate temperatures:	min. +10 °C max. +35 °C at max. 80 % relative humidity
Pot life*:	ca. 100 minutes
Foot traffic after*:	approx. 12 hours
Overcoat after*:	approx. 12 hours
Fully cured after*:	approx. 7 days
Shore-D hardness:	approx. 95 (after 7 days)
Compressive strength:	see the tables
Flexural strength:	40 N/mm <sup>2</sup>
Impermeability to water:	up to 5 bar from 20 mm layer thickness (according to DIN EN 12390-8)
Tensile adhesion strength:	approx. > 2 N/mm <sup>2</sup> (dry to matt damp concrete) approx. > 2 N/mm <sup>2</sup> (Steel)

\* at +23 °C and 50% rel. humidity

### Compressive strengths:

Curing time (days)	Compressive strength (N/mm <sup>2</sup> )*
1	approx. 65
2	approx. 80
3	approx. 88
4	approx. 95
5	approx. 101
6	approx. 105
7	approx. 109

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Cleaning:	Thoroughly clean tools immediately after use with ASO-R001.
Packaging:	30 kg units Component A (resin): 5.04 kg, component B (hardener) 1.66 kg (combined pack) and component C (filler) 23.3 kg (bag) are provided at a pre-determined mixing ratio.
Storage:	Frost free, cool and dry, $\geq + 10$ °C to $+ 25$ °C. 24 months in the original unopened packaging. Use opened packaging promptly.

## Substrate:

The area to be treated must be:

- dry to matt damp, sound, load-bearing and have a good key.
- Free from separating and adhesion reducing substances such as e.g. dust, laitance, grease, rubber marks, paint residues and similar.

Substrate preparation is to be carried out with reference to DIN EN 14879-1:2005, 4.2 following.

Dependent on the condition of the substrate to be treated, use suitable mechanical preparation methods, e.g. high pressure water blasting, scabbling, shot blasting, planing etc, with which a textured, open surface is achieved. (Repair large voids or cracks beforehand with a suitable product from the SCHOMBURG range).

Appropriate to each particular substrate, the following criteria are also to be fulfilled:

- Concrete quality: min. C 20/25
- Screed quality: min. EN 13813 CT-C25-F4
- Tensile adhesion strength:  $> 1.5$  N/mm<sup>2</sup>

## Metallic areas:

- Surface purity steel: min. SA 2½

## Note:

Cleaned metal areas are to be over-coated with ASODUR-EV200 within a minimum of 4 hours. If the waiting time will be longer, then apply the corrosion inhibitor ASODUR-K4032-aci beforehand in accordance with the technical data sheet.

## Product preparation:

All three components, A (resin), B (hardener) and C (filler) are supplied at a pre-determined mixing ratio. Add component B to component A. Ensure that the hardener completely drains from its container. Blending of the two components is to be carried out with a suitable rotary stirrer at approx. 300 min<sup>-1</sup>. It is important to also stir at the sides and the bottom so that the hardener is evenly dispersed. Keep stirring until the mixture is homogenous (free from streaks). The mass is subsequently decanted into an adequately large, clean mixing container and component C (filler) added in stages under constant stirring. Keep stirring until the mortar achieves a homogenous, flowing consistency. It is also important to stir at the sides and the bottom, mixing time approx. 3 minutes. During the mixing process the material temperature should be approx.  $+15$  °C. Do not use the mixed material directly from the packaging.

## Application method/consumption:

Allow the mixed grouting compound to rest for a short time before application to allow trapped air bubbles to escape more easily.

**Machine grouting:** Provide sufficient material for complete grouting so that the grouting process does not have to be interrupted. Otherwise, there is a risk of pockets forming. Mixing and grouting times per container should be carefully predetermined to ensure continuous grouting. Grouting or under grouting is

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preferably done from one side or corner only, so that the displaced air can escape more easily and hollow layers are avoided. When grouting large areas, start from the centre if possible, and funnels can be used to assist in this. First fill the anchor holes to below the top edge of the anchor hole, then grout the machine plate. The minimum layer thickness is 10 mm. Layers thicker than 200 mm must be multiple skin-layered, the following layer can be applied without priming after the previous layer has cured and cooled down (approx. 12 hours). Consumption: approx. 1.9 kg/m<sup>2</sup> per mm layer thickness.

**Grouting of support and railing posts:** Pillar and support openings can be grouted up to a height of 800 mm and a diameter of up to 300 mm in one go.

**Surface application:** Spread the mixed grouting mortar in strips on the substrate and level to the desired layer thickness using a height-adjustable squeegee. After waiting for approx. 150 to max. 180 minutes, smooth off in strips with a surface spatula, eliminating any surface air bubbles.

**Anchor grouting:** Always select a drill hole diameter at least 6 mm larger than the anchor diameter. Clean the drill hole with a bottle brush and remove dust thoroughly. After filling the borehole with ASODUR-EV200, insert and fix the anchor steel with rotary movements. Remove excess grouting material immediately.

**Overcoating:** ASODUR-EV200 can be recoated with ASODUR coatings, e.g. ASODUR-B351, AOSUR-V360W within 12 to max. 72 hours after curing, without primer.

**Slip-resistant surface:** To achieve a slip-resistant surface, ASODUR-EV200 can be mixed after approx. 120 min. with quartz sand of grain size 0.5-1.0 mm can be spread over the full surface (consumption approx. 1.5-2.0 kg/m<sup>2</sup>). After curing, remove excess quartz sand and apply a top sealing coat, e.g. ASODUR-B351 by roller application (consumption approx. 600 g/m<sup>2</sup>).

## Important advice:

- As a rule, SCHOMBURG products are supplied in working packs i.e. at a coordinated mix ratio. When supplied in large containers, part quantities must be weighed out using a balance. Always thoroughly stir the filled components and only then mix with the second component. This is to be executed with a suitable stirrer e.g. Polyplan/Ronden mixing paddle or similar. In order to exclude mixing errors, decant into a clean container and mix anew. The mixing speed should be approx. 300 min<sup>-1</sup>. Ensure that no air is mixed in. The temperature of the components should be minimum +15°C.
- Higher temperatures shorten the pot life. Lower temperatures increase the pot life and setting time and reduce the flow characteristics of the grouting mortar. Material consumption is also increased at lower temperatures.
- The bond between individual coats can be heavily impeded by the penetration of moisture and contamination between the individual coats. Grouting work requires a substrate temperature of at least 3°C above the dew point temperature.
- If there is a long down time between individual coats or if already treated areas are to be renewed with liquid resins after a long period of time, then the old surface is to be well cleaned and thoroughly abraded. Afterwards carry out a completely new pinhole free coating.
- Surface protection systems must be protected from moisture (e.g. rain, melt water) after their application for approx. 6 hours. Moisture produces a white discolouration and/or stickiness on the surface and can lead to interference in the curing process. Take off discoloured and/or sticky surfaces by e.g. planing or abrasive blast techniques and renew.
- Consumption quantities given are values determined by calculation without additions for surface roughness or absorption, levelling or residues in the containers. We recommend adding a calculated safety factor of 10% to the computed consumption quantities.

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- Applications, which are not clearly mentioned in this technical data sheet may only be implemented after consultation with and written confirmation from the technical service department of SCHOMBURG.
- Cured product residues can be disposed of using waste disposal code AVV 150106.

Please observe a valid EU Safety Data Sheet.

**GISCODE: RE 1**

Please observe the following table on chemical resistance!

## ASODUR®-EV200 resistance list

Test fluid	Concentration (%)	Classification		
		low resistance (≤ 8 hours)	moderate resistance (≤ 72 hours)	high resistance (≤ 14 days)
<b>Inorganic acids</b>				
Nitric acid	15			■
Sulphuric acid	20			■
Hydrochloric acid	10			■
<b>Organic acids</b>				
Formic acid	5		■	
Citric acid	20			■
Lactic acid	20		■	
<b>Alkalis</b>				
Sodium hydroxide	conc.			■
Ammonia	conc.			■
<b>Solvent</b>				
Kerosene	neat			■
Petrol	neat			■
Diesel	neat			■
Ethanol	neat			■
<b>Oils</b>				
Engine oil	neat			■
Brake fluid	neat			■
Heating oil	neat			■
<b>Aqueous solution</b>				
De-icing salt	conc.			■

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