SCHOMBURG GmbH & Co. KG
Aquafinstrasse 2 – 8
D-32760 Detmold (Germany)
phone +49-5231-953-00
fax +49-5231-953-108
email export@schomburg.de
www.schomburg.com

SCHOMBURG

Technical Data Sheet

ASODUR®-EV200 INDUGROUT-EP200 Art.-No. 2 06436

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

CE

SCHOMBURG GmbH & Co. KG
Aquafinstrasse 2-8
D-32760 Detmold
17
2 06436

DIN EN 1504-6: 2006-11
ASODUR-EV200
Anchoring product

Pull out strength	≤ 0.6 mm
Chloride ion content	≤ 0.05 %
Glass transition temperature	≥ 45 °C
Creep under tensile load	≤ 0.6 mm
Reaction to fire	E
Dangerous substances	NPD

NPD = „No Performance Determined"

- Easy to mix.
- Solvent free.
- Low shrinkage.
- Excellent flow performance.
- Rapid strength development.
- High mechanical strength and chemical resistance.
- Very good bond to concrete and steel.
- Thicknesses from 10 mm to 200 mm.
- Waterproof to 5 bar.
- Fire classification B (DIN EN 13501) for thicknesses up to 75 mm.
- Test certificate to DIN EN 1504-6.
- Can be over-coated with ASODUR coating systems.

Areas of application:

- As a flowable grout below machinery with heavy duty loading e.g. from vibration or chemical exposure.
- As a grout beneath bolts and supporting constructions (e.g. in bridge construction).
- As a high performance anchoring mortar, e.g. with safety barriers, supporting stanchions and rails.
- In the structural design of crane runways and rails.
- Suitable for internal and external use.

Technical Data:

Basis:	3-comp. Epoxy resin
Consistency:	flowable grout
Colour:	grey
Density*:	approx. 2.0 g/cm³
Material consumption:	approx. 2.2 kg/m² 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*:	approx. 150 minutes
Foot trafic after*:	approx. 12 hours
Overcoat after*:	approx. 12 hours
Fully cured after*: :	approx. 7 days
Shore-D hardness:	approx. 82
Compressive strength:	69 N/mm² after 24 hours 109 N/mm² after 7 days
Flexural strength:	40 N/mm²
Impermeability to water:	5 bar (DIN EN 12390-8)
Tensile adhesion strength:	approx. > 3 N/mm² (Concrete) approx. > 4 N/mm² (Steel)
Pull out strength:	≤ 0.6 mm (DIN EN 1504-6)
Creep behaviour under tensile load:	≤ 0.6 mm (DIN EN 1504-6)
Chloride ion content:	≤ 0.05 % (DIN EN 1504-6)
Glass transitio temperature	≥ 45°C (DIN EN 1504-6

* at +23 °C and 50% rel. humidity

ASODUR®-EV200 INDUGROUT-EP200

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, ≥ + 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, 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.
- Protected against rear moisture penetration.

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 and 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
  Residual moisture: ≤ 4 % (Carbide method)
- Screed quality: min. EN 13813 CT-C25-F4
  Tensile adhesion strength: > 1.5 N/mm²

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 rpm. 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:

Pouring the mortar (grouting beneath machinery):
It is important to ensure that sufficient material is available for the complete pour, as the pouring process must not be interrupted. Otherwise there is a risk of air entrainment or the formation of pockets. Mixing and pouring times per pack must be carefully coordinated to ensure continuous grouting.
Pouring or grouting is preferably carried out from one side or corner only, so that the entrapped air can more readily escape and prevent hollow areas.
Consumption: approx. 2.2 kg/m² per mm thickness.

Shuttering:
For floor slabs, waterproof shuttering around the floor slab is required at appropriate spacings so that there is a fall, which permits the mortar to flow. The shuttering should be impregnated with an oil-based release agent such as e.g. BLANKOL-0.
When grouting in large areas, it is recommended where possible to start from the middle outwards. Hoppers can be used as ancillary equipment. Firstly fill anchoring holes (up to approx. the top edge of the anchor hole), then pour the machinery slab. The minimum thickness is 10 mm, thicknesses above 200 mm are to be laid in layers whereby the following layer can only be applied, without priming, once the previous layer has hardened (approx. 12 hrs). Bolt and support openings can be filled to a depth of 800 mm and a diameter of 300 mm in one application. ASODUR-EV200 is a self-flowing mortar, vibration plates / rods or post treatment is not required. Protect the fresh product from rain and flowing water for at least 6 hours.
ASODUR-EV200 can be over-coated with ASODUR coating systems, e.g. ASODUR-B351, ASODUR-EB/L and their appropriate primers.

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 rpm. 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 as well as 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.
- 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