

ASODUR-EV 200 (INDUGROUT-EP200)

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

Technical Data Sheet Art.-No. 555057

Product description

ASODUR-EV 200 is a three-component, solvent-free, non-shrink, high performance, epoxy-resin, free flowing grout for gaps of 10 mm to 200 mm.

ASODUR-EV 200 is based on a selection of epoxy resins, curing agents, hard & inert aggregates that – when mixed – provide a grout of excellent adhesion with high early and final compressive & mechanical strengths, in addition to good chemical resistance.

Primary Uses

ASODUR-EV 200 is typically used to grout:

- under machinery plates exposed to high dynamic loads or vibrations
- under machinery that will be exposed to chemical attack
- under bridge bearing pads
- crane rails
- high strength anchoring bolts
- large area cavities in concrete.

Advantages

- Easy to mix and apply
- Solvent-free; 100 % solids
- Non-shrink curing ensures full adhesion
- Excellent flowability
- Rapid strength development
- Excellent chemical resistance & durability
- Suitable for application on damp or dry substrates

Standards

ASODUR-EV 200 is formulated to comply with all the requirements of ASTM C-881: „Epoxy resin-based Bonding Systems for concrete“.

Typical Properties

Appearance:	Free flow grey liquid
Density:	2.0 g/cm ³ at 20° C
Pot-life:	150 minutes at 23° C
Chemical Resistance:	reagents & chemicals; including salt water, organic & inorganic acids, alkalis, etc.
Flash Point:	> 200° C
Water absorption: (ASTM D-570)	0.10%
Compressive strength: (ASTM D-695)	65 N/mm ² after 24 hours 105 N/mm ² after 7 days
Flexural strength: (ASTM D638)	40 N/mm ²
Tensile Strength: (ASTM D-638)	15 N/mm ²
Bond Strength: concrete: (ASTM C-882) steel:	concrete: 4 N/mm ² (ASTM C-882) steel: 15 N/mm ²
Coefficient of thermal expansion:	42 x 10 ⁻⁶ mm/mm/°C

Application Procedures

Tools:

Surface preparation:

Use chisel, grinder (such as HighGrinder 125.4RO* or similar), sand-blasting, water-blasting or grit-blasting equipment.

Mixing:

Use a spiral mixing paddle (such as MG140*) & a variable slow speed mixer (such as HighMix EHR23*).

Pouring:

Use plastic or steel buckets & funnels.

* denotes equipment supplied by HTG HIGH TECH Germany GmbH

Surface Preparation

Areas to be treated must be sound, and free from adhesion inhibiting substances such as dust, laitance, grease, rust, etc.

Dependent on the type and condition of the substrate use suitable means of preparation such as scabbling, grit-blasting, water-blasting or shot-blasting.

The following criteria must also be respected, dependent on substrate type:

Cement-based:

Concrete quality: min. C20/25

Age of substrate: min. 14 days

Tensile adhesion strength: > 1.5 N/mm

Iron and steel:

Surfaces are to be abraded to a bright white metal finish in accordance with Swedish Standard SA 2&1/2. Apply INDUBOND-VK4032-ACI immediately before fresh scale is formed.

Shuttering:

Erect a water-tight shutter around the base plate at appropriate distance (for visual & physical inspection) and ensure that a hydrostatic head is created at one side of the formwork. Shuttering should be coated with an oil-based de-moulding agent such as BLANKOL-NATIV and left to dry before grouting. Please refer to method statement for more details.

Mixing

All three components, A (resin), B (hardener) and C (filler) are delivered in a predetermined mixing ratio. Empty the entire contents of component B into the component A container. Mechanically stir using appropriate mixing paddle attached to a slow speed mixing drill (300 to 400 RPM) until a homogeneous and well dispersed mixture is obtained. Gradually add component C, while mixing and continue thorough mixing until a homogenous flowable mixture is

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obtained. Ensure that no unmixed material is left on the sides and bottom of the container. Decant the material into a clean container and thoroughly mix once again for 3 minutes. The material temperature during mixing should always be 30° C or lower.

Method of Application

Placement:

It is important to make available ample product and ensure a steady & continuous pouring process to prevent air entrapment or pocket formation. Mixing & pouring times per kit should be carefully considered to avoid any discontinuation of any single pour. Rodding or vibrating is not required as ASODUR EV-200 is a free flowing grout.

Always place grouts from one side of the base plate only, whilst maintaining a constant „liquid grout“ head until the grout rises at other sides of the base plate.

The constant liquid head prevents air pocket formation under the base plate and assures proper adhesion and contact (effective bearing area).

Do not apply at thicknesses lower than 10 mm. Do not exceed 200 mm layer thickness in any single application.

Refer to method statement for more details.

Curing:

ASODUR-EV 200 does not require any particular curing after placing. Protect uncured product from rain & moving water. Once hardened no curing procedures are required.

Estimating & Supply

Packaging:

ASODUR-EV 200 is supplied in 30 kg kits consisting of 3 components. All components are delivered at a predetermined mixing ratio.

Component A (resin): 5.04 kg
(combined container)

Component B (hardener): 1.66 kg
(combined container)

Component C (filler): 23.3 kg (bag)

Yield:

ASODUR-EV 200 : approx. 2 kg/litre or
20 kg/10 mm thick gap/m².

Higher consumption is expected on rough surfaces. Always allow for wastage when calculating quantities to order.

Cleaning & Equipment Maintenance

During continued application, all tools must be regularly & thoroughly cleaned with INDU-IB-Cleanser every 40 to 60 minutes (dependant on temperature) to prevent the product from setting on tool surfaces. Thorough cleaning must also be carried out immediately at the end of works or whenever work is suspended. Cured material can only be removed mechanically.

Storage & Shelf-life

ASODUR-EV 200 has a shelf life of 24 months when original, unopened containers are stored in a dry and frost-free environment above 5° C.

Health & Safety

Once completely cured, ASODUR-EV 200 is harmless. The hardener (component B) is corrosive. Therefore implicitly ensure that the hardener does not come into contact with skin. Always wear protective gloves and adequate eye protection when working with this product. Clean up contamination with plenty of water and soap, preferably with the addition of 10% household vinegar. Should splashes get into the eyes, rinse immediately with plenty of water and seek immediate medical help with reference to the current valid Material Safety Data Sheet. Adhere to the general government health and safety protective directive.

Important advice

- Always mix a full pack. Do not mix part packs.
- Do not expose applied material before initial cure to moving water.
- Protect from rain before initial cure to prevent surface deformations.
- Lower site temperatures may reduce workability whilst reaction times (pot life & full cure) are extended. Higher temperatures shorten the pot life.
- Applications that are not clearly explained in this technical data sheet may only be carried out after consultation with and written conformation from the Technical Services Department of SCHOMBURG.
- ASODUR-EV 200 is classified as non hazardous in accordance with the Ordinance on Hazardous Substances GefStoffV.

Please observe a current EU health and safety data sheet.

GISCODE: RE 1

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Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of our products, are given in good faith based on our current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with our recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Valcke Bouwspecialiteiten B.V.B.A. reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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