

ASODUR EMB / INDUFLOOR IB 4010

Epoxy repair mortar

Technical Data Sheet Art.-No. 203527

Properties

INDUFLOOR-IB4010 is a two component filled epoxy resin mortar with the following properties:

- solvent free
- high compressive and flexural strength
- high resistance to mechanical loading.

CE	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold 06 5 55015	
EN 13813 INDUFLOOR-IB4010 Resin-based screed / resin-based coating for interior rooms	
SR-B11,5-AR1-IR4	
Reaction to fire according to K 2010/85/EU	E
Release of dangerous substances	SR
Resistance to wear	AR1
Tensile strength	≥ B1,5
Impact resistance	IR4

Areas of application

INDUFLOOR-IB4010 is used

- for producing covered fillets
- as a heavy duty repair mortar for voids in concrete and cement-based screed surfaces e.g. on concrete roadways, ramps, industrial floors etc.

Technical Data

Basis:	two component epoxy resin
Colour:	grey
Viscosity:	mortar like
Mixing ratio:	100:3.6 parts by weight
Density:	approx. 2.00 g/cm ³ approx. 40
Pot life:	minutes at +23° C
Application temperature:	min. approx. +10° C, max. approx. +30° C
Traffic after:	min. approx. 16 hours at +23° C
Overcoat after:	approx. 16 hours, max 24 hours at +23° C
Fully cured:	after approx. 7 days at +23° C
Min cure temperature:	+8° C
Compressive strength:	approx. 100 N/mm ²
Flexural strength:	approx. 35 N/mm ²
E-modulus:	approx. 16,000 N/mm ²
Tensile adhesion strength:	B 1.5 (concrete)

Cleaning

Thoroughly clean tools immediately after use with INDU-IB Cleanser and thinners.

Packaging

INDUFLOOR-IB4010 is available in 8 kg, 12 kg and 20 kg containers. Components A and B are delivered in a predetermined mixing ratio.

Storage

18 months when stored dry and cool above +10° C in the original unopened packaging.

Specifications for using

Surface preparation

The area to be treated must be:

- dry, firm, sound and have a good grip
- free from separating and adhesion inhibiting substances such as dust, laitance, grease, oil, rubber marks, paint residues and similar
- protected from moisture ingress from the rear.

Use suitable means to prepare the substrate dependent on its condition such as e.g. shot blasting, scabbling, planing, grit blasting, brushing, sweeping, vacuuming, high pressure water jetting, pressure washing.

In addition the following criteria are to be fulfilled dependent on the substrate:

Cementitious substrates:

- Concrete quality: min. C20/25
- Screed quality: min. EN 13813 CT-C25-F4
- Age: min. 28 days
- Tensile adhesion strength: = 1.5 N/mm²
- Residual moisture: < 4%
(carbide hygrometer method)

Product preparation

Components A (resin) and B (hardener) are delivered in a 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 approx. 300 rpm (e.g. drill with paddle). It is important to also stir from the sides and the bottom to ensure that the hardener is evenly dispersed. Stir until the mix is homogenous (free from striations); mixing time approx. 3 minutes. The minimum temperature during mixing should be +15° C. Do not use mixed material directly from the packaging. Decant the material into a clean container and mix through thoroughly once again.

Method of application/consumption

Priming:

Evenly apply INDUFLOOR-IB1270 to damaged areas.
Consumption: approx. 300 - 500 g/m² per coat.

Repair of damage and voids in concrete:

Apply INDUFLOOR-IB4010 to the voids over the wet primer in one application, compact and strike off level with the surface.
Consumption: approx. 2.0 kg/m²/mm thickness

Production of covered fillets:

In one application, apply INDUFLOOR-IB4010 to the primed area to be covered whilst the primer is still wet, compact and strike off level with the surface. Cove radius: approx. 3 - 5 cm.
Consumption: approx. 1.8 kg/m (with a cove radius of approx. 5 cm).

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Health and safety

Once cured INDUFLOOR-IB4010 is harmless. The hardener (component B) is corrosive. When using this product the government health and safety protective directive, data sheet M 023, should be observed as well as the advice on the packaging.

Important advice

- As a rule SCHOMBURG products are delivered in working packs i.e. the mixing ratio is predosed. When large units are supplied, they must be weighed out in part using a balance. Always thoroughly stir the filled components and only then mix with the second component. This is to be done with a mixing paddle e.g. Polyplan/Rondon circular stirrer or equivalent. In order to prevent mixing errors, decant into a clean container and mix again. The mixing speed should be 300-400 rpm. Ensure that no air is entrained. Higher speeds pull unnecessary air into the product whereas lower speeds do not result in good mixes or it takes too long to mix (pot life). The temperature of the components should be at least 15° C. This is also applicable for any filler added such as e.g. sands. Mixing of the fillers is carried out once the liquid components have been blended. Then immediately tip the complete mix onto the prepared substrate and thoroughly spread out in good time following the instructions given in the technical data sheet. Always thoroughly stir single component products before use.
- Higher temperatures shorten the pot life and curing time. Lower temperatures increase the pot life and curing time. Material consumption is also increased at lower temperatures.
- The bond between the individual coats can be heavily impeded through the influence of dampness or contamination between the applied coats.
- When longer waiting times occur between application of the coats or where surfaces already treated with liquid resin must be re-coated after a long time, the surface must be well cleaned and abraded, after which a completely new closed-pore coating should be applied. It is not sufficient simply to overcoat.
- Surface protective systems must be protected for approx. 4 - 6 hours from dampness after application (e.g. rain, melt water). Dampness produces a white discolouration and/or stickiness on the surface and can impede the cure. Discoloured and/or sticky surfaces should be taken off e.g. by abrading and renewed.
- 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.
- Cured product residues are to be disposed of under waste disposal classification AW 150106.

Please observe a valid EU safety data sheet.

Pain products directive (2004/42/EU):

Group Lb: j

Level 1 (2007): max. 550 g/l

Level 2 (2010): max. 500 g/l

INDUFLOOR-IB4010 contains: < 500 g/l

GISCODE: RE 1

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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