



Technical Data Sheet

INDUFLOOR®-IB3375

Art.-No. 5 55031

Conductive water diffusion open floor coating - aqueous

Properties:

INDUFLOOR-IB3375 is a water emulsified, pigmented, two component epoxy resin with the following properties:

- free from organic solvents
- conductive
- low odour
- environmentally friendly
- resistant to dilute alkalis and acids, heating oil and petrol
- highly vapour permeable
- can be applied in coats from 2 – 5 mm
- excellent bond to different substrates
- satin finish.

Areas of application:

For medium to heavy duty areas in interiors. INDUFLOOR-IB3375 is used as a floor coating on cementitious floor areas, magnesium screeds and anhydrite screeds e.g. in

- Computer rooms, Electronical environments
- Commercial printing facilities
- Hospitals

Technical Data:

Basis:	two component epoxy resin
Colour:	approx. RAL 7032
Mixing ratio:	100:14 parts by weight
Density:	approx. 1.95 g/cm ³ at +23° C
Viscosity:	medium viscosity
Pot life:	approx. 45 minutes at +23° C
Application temperature:	min. +10° C / max. +30° C
Traffic after:	approx. 24 hours at +23° C
Overcoat after:	approx. 16 hours up to max 24 hours at +23° C
Fully cured:	after approx. 7 days at +23° C

Relative humidity:	approx. 75% at +10° C to 85% at +23° C
Permeability coefficient:	approx. 2500 μ
Sd value:	approx. 4 m

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, rubber marks, paint residues and similar.

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

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

Cementitious surfaces:

- Concrete quality: min. C20/25
- Screed quality: min. EN 13813 CT-C25-F4
- Age: min. 28 days
- Tensile adhesion strength: 1.5 N/mm²

Magnesium screeds:

- Screed quality: min. MA 40
- Age: min. 14 days
- Tensile adhesion strength: > 1.0 N/mm²
- Residual moisture: < 2%
(carbide hygrometer method)

Calcium sulphate screeds:

- Screed quality: min. CA-C20-F7
- Age: min. 14 days
- Tensile adhesion strength: > 1.0 N/mm²
- Residual moisture: < 0.5%, with underfloor heating: < 0.3% (carbide hygrometer method)

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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. 5 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:

Trowel apply INDUFLOOR-IB3375 in one application. Pour portions of the mixed material on to the surface and spread evenly over the surface.

Tools e.g.

- Notched trowel: Pajarito TKP/R R2 or
- Polyplan 777E/type 55 for 3mm thickness or
- Rake for thickness from 2 – 5 mm
- Spiked roller

System Build-up A for even substrates, without levelling patches:

Priming:

1. Dilute INDUFLOOR-IB2360 with a maximum of 10% water and roller apply in one application. Material consumption: approx. 300 – 350 g/m² of the diluted mix.

Conductive Layer:

2. Apply the conductive layer, consisting of:
Copper fibers: INDU-Leitband AL (approx. 5/5 m)
Conductive lacquer: INDUFLOOR-IB2115, applied in 1 layer with a roller.
Consumption: approx. 200 g/m²

Coating:

3. Application of the topcoat: INDUFLOOR-IB3375
Material consumption: Minimum 4.0 kg/m² at 2 mm thickness. Keep to a minimum thickness of 2 mm.
- 3.1 To avoid bubbles and pinholes forming in the topcoat it is essential to aerate by backrolling with a porcupine roller, after a waiting time of approx. 10 – 15 mins. at +20° C.

Finishing coat:

After waiting for between 12 and 16 hours at +23° C apply the sealing layer with the product INDUFLOOR-IB2250. Material consumption: approx. 80 g/m².

System Build-up A for uneven substrates, with levelling patches:

Primer:

1. Apply INDUFLOOR-IB3375 in a single layer as a scratch coat.
Consumption: approx. 2.000 g/m² per even layer

Conductive Layer:

2. Apply the conductive layer, consisting of:
Copper fibers: INDU-Leitband AL (approx. 5/5 m)
Conductive lacquer: INDUFLOOR-IB2115, applied in 1 layer with a roller.
Consumption: approx. 200 g/m²

Coating:

3. Apply INDUFLOOR-IB3375 in one layer with a trowel.
Consumption: minimum 4.000 g/m² with 2 mm thickness. Minimum thickness of 2 mm must be maintained.
- 3.1 To avoid bubbles and pinholes forming in the topcoat it is essential to aerate by backrolling with a porcupine roller, after a waiting time of approx. 10 – 15 mins. at +20 °C.

Deck Sealing:

After waiting approx. 12 – 16 hrs at +23 °C, seal the surface by applying INDUFLOOR-IB 2250.
Consumption: approx. 80 g/m²

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Cleaning & Equipment Maintenance:

Thoroughly clean tools immediately after use with water.

Packaging:

30 kg containers. Components A and B are delivered in a predetermined mixing ratio.

Storage & Shelf Life:

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

Storage & Shelf Life:

Once cured INDUFLOOR-IB3375 is considered harmless. The hardener (B) component is corrosive. Current relevant legislation should be followed at all times when working with epoxies, e.g. hazmat transportation, etc. For more information please consult www.plasticseurope.org.

Important advice:

- The application temperature may not fall below +10° C nor exceed +40° C.
- Higher temperatures shorten the pot life. Lower temperatures increase the pot life and curing time. Material consumption is also increased at lower temperatures.
- To increase pot life/working time at higher temperature store material in a cool environment above +10° C and only expose to warm temperature shortly before mixing.
- Colour: Minor colour variations due to production plants and raw material fluctuations are unavoidable. This should be considered when applying coatings. Neighbouring sections should be completed with the same production units (see batch number on the packaging).
- Avoid thicknesses > 5 mm (greater material consumption). This leads to crack formation and delamination.

- Waiting times between individual coats – min. 12 hours to a max. 24 hours. Waiting times should be appropriately extended where the relative humidity is > 85% at +23° C.
- Ensure there is adequate ventilation and extraction during the drying and curing phases.
- The bond between the individual coats can be heavily impeded through the influence of dampness or contamination between the applied coats.
- The substrate temperature must be a minimum of < +3° C above the dew point.
- 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 ICS GmbH.
- Cured product residues are to be disposed of under the waste disposal code 57123 "Epoxy resin".

Please observe a valid EU safety data sheet.

GISCODE: RE 0