MYK SCHOMBURG

High-performance Construction Chemicals

Technical Data Sheet

MYK INDUFLOOR® -IB 1250

Moisture barrier primer

Properties:

MYK INDUFLOOR-IB 1250 is a two component epoxy resin with the following properties:

- solvent free
- low viscosity
- VOC free
- moisture and water vapour barrier
- water and frost resistant
- resistant to dilute alkalis, acids, aqueous salt solutions and lubricants.

Areas of application:

MYK INDUFLOOR-IB 1250 is used:

- as a moisture and water vapour barrier primer on damp concrete / bonded cement-based screeds
  ==> that are to be coated with MYK INDUFLOOR systems
  ==> that are to be covered with conventional classic floor finishes such as PVC, Linoleum, carpet, parquet, tiles etc.
- for producing levelling and scratch coats.

Technical Data:

Basis:	two component epoxy resin
Colour:	transparent
Viscosity:	approx. 600 ± 80 mPA·s at +25° C
Mixing ratio:	100:52 parts by weight
Density:	approx. 1,09 ± 0,02 g/cm3
Pot life:	approx. 35 minutes at +23° C
Application temperature:	min. approx. +10° C, max. approx. +35° C
Foot traffic after:	min. approx. 12 hours at +23° C
Overcoat after:	approx. 12 hours up to a max. 24 hours at +23° C
Fully cured:	after approx. 7 days at +23° C
Min. cure temperature:	+10° C
Tensile adhesion strength:	B 1,5 (concrete failure)

Cleaning:

Thoroughly clean tools immediately after use with INDU-IB Reiniger.

Packaging:

MYK INDUFLOOR-IB 1250 is available in 10 kg and 30 kg containers. Components A and B are delivered in a predetermined mixing ratio.

Storage:

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

Surface preparation:

Concrete and cement-based screeds must be sound, clean, dry to damp and be free from materials that will impair adhesion. Completely remove weak or poorly bonded coats e.g. release agents, old adhesive, levelling compound residues or old surface finishes and paint residues.

MYK INDUFLOOR-IB 1250 can be used on the following substrates:

- Concrete slabs and cement-based screeds subjected to negative moisture pressure
- Concrete slabs and cement-based screeds with increased residual moisture*.

Note:

Residual moisture in cementitious substrates, dry or damp (in accordance with Def. RiLi SfB)*.

* "Guidelines for the protection and renovation of concrete structures" part 2, clause 1.2.5" concrete moisture.

"dry":

An approximately 2 cm deep freshly produced cut out area may not, as a result of drying, become visibly lighter. (Where doubt exists the concrete is considered dry when it exhibits equilibrium moisture content for the climate 23/50 i.e. dependent on the concrete classification other absolute values serve for "dry").

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"damp":

The surface appears matt damp but may not exhibit a shiny film of water. The pore system within the concrete substrate may not be saturated i.e. applied water droplets must be absorbed and the surface must appear matt once again after a short while.

The following criteria are to be fulfilled dependent on the particular substrate:

Cementitious surfaces:

- Concrete quality: min. C20/25
- Screed quality: min. EN 13813 CT-C25-F4
- Plaster quality: PIII
- Age: min. 28 days
- Tensile adhesion strength: = 1.5 N/mm2 (plaster 0.8 N/mm2)

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 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.

Notes:

When using the product ensure that it is applied by flooding evenly over the prepared substrate. Irregularities lead to capillary active pores in the cured priming coat and promote the formation of bubbles especially osmosis bubbles. To ensure a priming coat has blocked pores apply two coats "wet in wet". Pore blocking can also be increased through the application of a second layer of a dense smoothing mortar. This smoothing mortar is produced from the priming resin with the addition of quartz sand – see production of levelling / scratch coats below. When adding aggregates (e.g. quartz sand) ensure that the aggregate is dry and also has a temperature of approx. +15° C.

Production of levelling / scratch coats:

MYK INDUFLOOR-IB 1250:	1.0 part by weight
Quartz sand:	approx. 1.0 part by weight (grade: 0.1 – 0.6 or 0.2 – 0.7 mm)
INDU-Faserfüllstoff:	approx. 2 – 3 % by weight

The quartz sand is mixed with the previously mixed and decanted resin and hardener components. Ensure that the liquid and solid components are evenly mixed together.

Method of application / consumption:

Priming:

Flood apply MYK INDUFLOOR-IB 1250 in one coat to block pores.

Consumption: approx. 400 – 670 g/m2.

Notes:

- The consumption is in accordance with the water vapour emission value determined e.g. from the calcium chloride method.
- Overcoat the primed area within 12 hours and up to a maximum of 24 hours.
- Primer that has not been broadcast with sand may only be walked on with clean overshoes.
- When a thin following coat is applied with a smooth surface at a thickness <1.0 mm then broadcasting with sand can be omitted.
- When MYK INDUFLOOR-IB 1250 has quartz sand broadcast into it, priming must be carried out in two coats. The second coat is to be applied after a waiting time of 12 hours minimum but within a further 12 hours.

Broadcast the second primer layer with quartz sand (grade: e.g. 0.2 – 0.7 mm).

Consumption: approx. 0.8 – 1.0 kg/m2.

Note:

Do not broadcast to excess.

Once hardened carefully remove all non-bound quartz sand before roller applied or flowing coatings, scratch coatings or screeds are applied.

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Levelling / scratch coat:

Firstly prime the floor with MYK INDUFLOOR-IB 1250 as described above. The mixed smoothing compound is skim applied in one coat. Consumption of finished smoothing compound: approx. 1.6 kg/m2/mm.

Physiological behaviour and protective measures:

Once cured MYK INDUFLOOR-IB 1250 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:

- Higher temperatures shorten the pot life. Lower temperatures increase the pot life and curing time. Material consumption is also increased at lower temperatures.
- The bond between the individual coats to one another 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 pore free sealing should be undertaken. It is not sufficient to simply overcoat.
- Protect surface protective systems from moisture (e.g. rain, melt water) for approx. 4 – 6 hours after application. 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 INDUTEC GmbH.
- Cured product residues are to be disposed of under waste disposal classification 57123 “Epoxy resin”.

Please observe a valid EU safety data sheet.

GISCODE: RE 1