MYK SCHOMBURG

High-performance Construction Chemicals

Technical Data Sheet

MYK INDUFLOOR® - 1240

Oil and vapour barrier

Properties:

MYK INDUFLOOR-IB 1240 is a low solvent, moisture compatible, two component epoxy resin with the following properties:

- due to its high density it displaces the water from the capillaries in the surface zone and functions as a barrier against capillary rising oils
- bonds very well to damp concrete substrates
- high Sd-value (< 300 m, water vapour proof).

Areas of application:

MYK INDUFLOOR-IB 1240 is used:

- as a special primer for oil contaminated, but previously cleaned concrete substrates
- as effective protection against the formation of osmosis bubbles with exposure to moisture from the rear
- as a primer for still damp concrete / bonded screed substrates

  ==> are to be treated with MYK INDUFLOOR system coatings

  ==> are to be covered with conventional, classic floor finishes such as PVC, Linoleum, carpet, parquet, tiles etc. Please refer to the advice section.

Technical Data:

Basis:	two component epoxy resin
Colour:	light grey
Viscosity:	approx. 70 seconds in a 4 mm DIN flowcup
Mixing ratio:	100:12 parts by weight
Density:	approx. 1,86 g/cm3
Pot life:	approx. 60 minutes at +23° C approx. 30 minutes at +30° C
Application temperature:	min. +8° C, max. +30° C
Foot traffic after:	min. approx. 12 hours at +23° C
Overcoat after:	approx. 12 - 24 hours at +23° C
Fully cured:	after approx. 7 days at +23° C
Min. cure temperature:	+8° C (slow cure)
Consumption:	min. 600 - 1.000 g/m2
Compressive strength:	approx. 80 N/mm2
Flexural strength:	approx. 30 N/mm2
WDDW in µ*:	approx. 738.552 (DIN 16 726 free film)
Tensile adhesion strength:	B 1,5* Water vapour diffusion resistance

Cleaning:

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

Packaging:

MYK INDUFLOOR-IB 1240 is available in 15 kg containers with 28 kg containers on request. 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.

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 1240 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.

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"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").

"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.

Oil contaminated concrete areas:

• Clean with the cleaning agent INDU-IB Ölreiniger in accordance with application instructions. Afterwards clean the surface with high pressure water jetting. Remove excess water with a suitable wet vacuum.

• Evenly apply MYK INDUFLOOR-IB 1240 on to the substrate whilst still damp with a brush and roller.

Please observe:

A closed film of water may not be present on the surface of the concrete. The substrate may not dry out – during drying there is a risk that due to continuously rising oil no bond between the primer and the background is achieved.

Dependent on the condition of the background to be treated suitable preparation methods should be used such as e.g. scabbling, shot blasting, planing etc. The following minimum requirements are to be fulfilled dependent on the particular background:

- Concrete quality: min. C20/25
- Screed quality: min. EN 13813 CT-C25-F4
- Tensile adhesion strength: > 1.5 N/mm2
- Plaster quality: min. P IIIa / P IIIb
- Tensile adhesion strength: approx. 0.8 N/mm2

Important advice:

Oil contaminated substrates are particularly problematical.

We recommend that you contact our Technical Services Department.

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.

Method of application / consumption:

MYK INDUFLOOR-IB 1240 is applied to saturation on to the cleaned matt damp background with a rubber squeegee, brushed carefully into the surface with a priming brush and evenly rolled with a fur roller with short nap. Blind the fresh priming coat with quartz sand (grade: 0.5 – 1.0 or 0.7 – 1.2 mm diameter).

Once cured carefully remove all non-bound quartz sand before applying primers for further coatings.

Material consumption: dependent on the substrate the consumption is between min. 6.7 – 1.0 kg/m2. The consumption of broadcast sand is approx. 1.5 kg/m2.

After a waiting time of approx. 12 to 24 hours any optional MYK INDUFLOOR coating system beginning with the appropriate primer or other floor build up can be implemented.

Physiological behaviour and protective measures:

Once cured MYK INDUFLOOR-IB 1240 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.

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- 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 abraded and renewed.
- High temperatures, direct sunlight and draughts can lead to the formation of a skin and impede the necessary granular binding as well as penetration into the substrate.
- When using MYK INDUFLOOR-IB 1240 as a vapour barrier beneath conventional floor finishes such as PVC, Linoleum, carpet and parquet, do not use a solvent based adhesive. This leads to later bulging in the applied finish.
- Protect areas not to be treated from the effects of MYK INDUFLOOR-IB 1240.
- 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.
- Take heed of the technical data sheets for the products mentioned above before starting work.
- 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 2

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Technical Data Sheet

MYK INDUFLOOR® - 2310

Highly stable sealer

Properties:

MYK INDUFLOOR-IB 2310 is a single component polymer dispersion with the following properties:

- solvent free
- pigmented
- chemically resistant to type EL fuel oil, diesel fuel, unused engine and transmission oil, transformer and hydraulic oils
- water vapour permeable
- withstands mechanical loading (pedestrians)
- crack bridging
- resistant to weathering.

Areas of application:

MYK INDUFLOOR-IB 2310 is used in interior areas in particular in accordance with national technical certification for coating

- reinforced concrete, concrete, plaster and screeded finishes in retaining basins and troughs.
- Furthermore for:
- access balconies, balconies, terraces, industrial areas etc.
- wall areas in agricultural buildings.

Technical Data:

Basis:	single component polymer dispersion
Colours:	grey and red-brown
Viscosity:	approx. 150 d Pa s ± 15% at +20° C
Density:	approx. 1,33 g/cm3 at +20° C
Application/ Substrate temperature:	+10° C to +30° C
Minimum curing temperature:	+8° C
Traffic after:	approx. 16 hours at +20° C
Overcoat after:	approx. 16 hours at +20° C
Fully cured:	after 7 days at +23° C

Cleaning:

Thoroughly clean tools immediately after use with water.

Packaging:

MYK INDULFLOOR-IB 2310 is available in 5 litre and 10 litre containers.

Storage:

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

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.

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

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

Cementitious surfaces:

- Concrete quality: min. C20/25
- Screed quality: min. CT-C25-F4
- Tensile adhesion strength: > 1.5 N/mm2
- Residual moisture: < 4%
- Plaster quality: min. P IIIa/P IIIb
- Tensile adhesion strength: approx. 0.8 N/mm2
- Residual moisture: < 4%

Product preparation:

MYK INDUFLOOR-IB 2310 is delivered ready for use. For easier application stir the product before use. Stir mechanically with a paddle at max. 300 rpm.

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Method of application / consumption:

- Prepare the substrate (see above).
- Produce coved fillets in corners and wall/floor junctions with a group III mortar.
- Apply three coats of MYK INDUFLOOR-IB 2310 alternating colours each time (grey-red-grey or red-grey-red).

  Base coat (grey)

  Dilute MYK INDUFLOOR-IB 2310 (grey) 1:1 by volume with water, then roller or brush apply in one coat. Consumption: approx. 120 ml/m2.

  Intermediate coat (red):

  After waiting for a minimum of 16 hours apply MYK INDUFLOOR-IB 2310 undiluted in one coat by roller or brush. Consumption: approx 450 ml/m2.

  Final coat (grey):

  After waiting for a minimum of 16 hours apply MYK INDUFLOOR-IB 2310 undiluted in one coat by roller or brush. Consumption: approx 220 ml/m2.
- Waiting time between individual coats: always between min. 16 and max. 24 hours at +23° C and 65% relative humidity.

Physiological behaviour and protective measures:

Once cured MYK INDUFLOOR-IB 2310 is harmless. When using this product the government health and safety protective directive should be observed as well as relevant data sheets and the advice on the packaging.

Important advice:

- Ensure that the coating is applied a minimum of 10 - 20 cm above the highest expected liquid levels.
- To ensure a speedy and thorough drying, open doors and windows and keep them open. Under advantageous drying conditions MYK INDUFLOOR-IB 2310 coatings can be trafficked and overcoated the next day (waiting time 16 hours).
- 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 coats thoroughly clean and abrade the surface after which a completely new pore free coat is to be applied. It is not sufficient to simply overpaint.
- 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 55513 "Old lacquer/ old paint".

Please observe a valid EU safety data sheet.

GISCODE: MD-F 01

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