



Technical Data Sheet

INDUFLOOR-IB-EPT

3-component, high performance, solvent-free, abrasion & chemical resistant epoxy floor screed

Product Description:

INDUFLOOR-IB-EPT is 3-component, solvent-free, epoxy resin-based, high performance floor screed trowel-applied. INDUFLOOR-IB-EPT is formulated to provide a continuous resilient, non-skid, abrasion, impact and chemical resistant floor with excellent physical & mechanical properties where thicknesses of 4 mm to 10 mm are required. INDUFLOOR-IB-EPT is based on selected epoxy resins & special hardeners and selected hard & well graded aggregates. INDUFLOOR-IB-EPT is available in a select of RAL shades.

Primary Uses:

INDUFLOOR-IB-EPT is typically used in:

- Heavy industries: steel works
- Schools
- Soft drink factories
- Workshops & garages
- Dairies
- Kitchens
- Pharmaceutical plants
- Showrooms
- Storage areas
- Food processing areas
- Car parks
- Laboratories
- Clean rooms
- Traffic decking
- Hospitals
- Power plants
- Shops and supermarkets
- Chemical handling & processing.

Note: Where high cleanness level are required seal INDUFLOOR-IB-EPT with one to two coats of INDUFLOOR-IB3359.

Advantages:

- Easily applied by trowel.
- Non-shrink and non-skid finish.
- Closed surface; easy to clean.
- Does not support bacterial growth.
- Solvent-free (100 % Solid), odourless.

- Highly durable; excellent abrasion and impact resistance.
- Hygienic & impervious to most liquids.
- Excellent adhesion to sound concrete & masonry substrates.
- Excellent adhesion to old & new and both dry & damp surfaces.
- High chemical resistant to most common chemical reagents.
- Formulated for the Middle East Climates.

Standards:

INDUFLOOR-IB-EPT is formulated to comply with all the requirements of both EN 13813: "Screed materials and floor screed – Properties and requirements" SR- B 2-AR1-IR4 and EN 1504 Part 2: "Products and systems for the protection and repair of concrete structures – Definition, requirements, quality control and evaluation of conformity – Part 2: Surface protection systems of concrete".

Typical Properties:

Appearance:	Pigmented mortar
Specific gravity:	2.0 at 20 °C
Solid content:	100 % by weight
Pot-life:	100 - 120 mins at 25 °C
Full cure:	7 days at 25 °C
Wet & dry thickness:	up to 5 mm
Compressive strength, ASTM D 579:	≥ 80 (N/mm ²)
Flexural strength, ASTM C-239:	50 (N/mm ²)
Tensile Strength, ASTM D-638:	20 (N/mm ²)
Bond Strength to concrete, ASTM C- 882:	3 (N/mm ²)
Water Absorption, ASTM D- 510:	0.3 %
Abrasion resistance:	60 mg (Taber Abrasive, 1000 grams / 1000 revolution)

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Chemical Resistance: INDUFLOOR-IB-EPT has been tested for chemical resistance to a comprehensive range of industrial & domestic chemicals. After constant immersion for 90 days at 35 °C in accordance with ASTM D-2240 (Shore D hardness), the results are:

Acids

Hydrochloric 50 %	Excellent
Sulfuric 50 %	Excellent
Nitric 25 %	Good
Acetic 10 %	Excellent
Lactic 10 %	Excellent
Citric 10 %	Excellent

Alkalis

Sodium hydroxide 50 %	Excellent
Sodium Carbonate 50 %	Excellent
Ammonia 10 %	Excellent
Potassium Hydroxide 50 %	Excellent
Sodium Hypochlorite 15 %	Excellent

Solvents & Oils

Ethanol	Excellent
Ethyl Glycol	Excellent
White spirit	Excellent
Petrol & Diesel Oil	Excellent
Coconut oil	Excellent
Cotton Seed Oil	Excellent
Soya Bean Oil	Excellent
Silicates	Excellent
Soya Bean Oil	Excellent
Vegetable Oil	Excellent
Detergent	Excellent
Fat	Excellent

Milk	Excellent
Pine Oil	Excellent
Linseed Oil	Excellent
Water	Excellent

(*) Discolouration may occur when INDUFLOOR-IB-EPT is exposed to the above mentioned reagents.

It is important to implement regular & proper housekeeping. Immediate cleaning of spillages prolongs the service life of any floor.

For other/specific chemical reagents, please ask for technical support.

Consumption:

2.0 kg per m² approx. per 1mm thickness. Consideration should always be given to undulated, rough or absorbent surfaces when calculating consumption which should also allow for wastage trial areas to determine exact consumptions at a specified thickness.

Guide for Applications

Surface Preparation:

All surfaces must be sound, clean and free from dust, grease & oils, curing agents, mould release agents and other contaminations adversely affecting bond with the substrate.

Steel or metal surfaces should be free from rust or scale in accordance with SA 2&½ (white metal finish).

All adhesion preventing contaminants should be fully removed.

Priming:

Prior to application of INDUFLOOR-IB-EPT, use as appropriate INDUFLOOR-IB1280 or INDUFLOOR-IB1285 (refer to relevant data Sheet).

Mixing:

Stir well, each of components A & B (separately) prior to the mixing of the two components. Empty the entire contents of component B into the canister of component A. Using an appropriate drill (RPM approx. 400)

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attached with an approved mixing paddle, mix the entire contents well for at least 3 minutes until a uniform colour and consistency are achieved.

Gradually add – whilst mixing – the entire contents of Component C and continue to mix until a uniform colour and consistent mix is achieved.

Application:

Apply the mixed materials onto prepared & primed substrates while the primer is still tacky (wet in wet) in the required thickness in single application. After laying the mixed material, tamp repeatedly with a wooden float and level with screeding bar to ensure full compacting.

Final finish trowel by stainless steel float to achieve the recommended finish.

Packaging:

INDUFLOOR-IB-EPT is supplied in 30 kg kits.

Storage & Shelf-life:

Components A & B have a shelf life of 12 months whilst Component C has a shelf life of 24 months, when original, unopened containers are stored in a dry, well ventilated warehouse away from moisture, direct sunlight, extreme temperatures (keep above 6 °C & below 35 °C) on pallets, elevated from the floor.

Health and Safety:

- INDUFLOOR-IB-EPT is non-toxic, non-corrosive & non-hazardous during handling, storage, use and after curing.
- Do not dispose of components A & B or any unhardened material into water sources or onto soil. Expired or out of pot-life material should be disposed of in accordance with local environmental regulations.
- Splashes on skin can be washed with soap and clean water.
- For more details about safety requirements, please refer to valid MSDS!