

INDUFLOOR®-IB-SL3000

3-COMPONENT, HIGH PERFORMANCE, SOLVENT-FREE, SELF-LEVELING, ABRASION & CHEMICAL-RESISTANT T T EPOXY FLOOR TOPPING (1.0 MM TO 3.0 MM THICKNESS)

Product Description:

INDUFLOOR®-IB-SL3000 is a 3-component, solvent-free (100 % solids), self-smoothing & levelling, epoxy resin based high-build, high performance, chemical & abrasion resistant seamless protective floor coating with dry film thicknesses between 1.0 mm and 3.0 mm. After curing the applied material provides a durable, easy-to-clean, protective, sealing & decorative topping with excellent abrasion & impact resistant properties. INDUFLOOR®-IB-SL3000 is based on selected epoxy resins & special hardeners and hard-wearing fillers. INDUFLOOR®-IB-SL3000 is available in a selection of RAL shades.

Primary Uses:

INDUFLOOR®-IB-SL3000 provides a seamless, slip, abrasion & chemical-resistant floor protective coating that adheres well to both dry and damp concrete, mortar or masonry surfaces. It is suitable for areas where a medium to thick film is required such as:

- Heavy industries: steelworks.
- Soft drink factories.
- Workshops & garages.
- Dairies.
- Kitchens.
- Pharmaceutical plants.
- Showrooms.
- Storage areas.
- Food processing areas.
- Car parks.
- Laboratories.
- Clean rooms.
- Traffic decking.
- Hospitals.

Advantages:

- Easily applied by brush or roller.
- High build; DFT: 1.0 – 3.0 mm.
- Smooth surface; easy to clean.
- Seamless and impermeable.
- 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 resistance to most common chemical reagents.
- Formulated for the Middle East Climates.

Standards:

INDUFLOOR®-IB-SL3000 is formulated to comply with all the requirements of both EN 13813: "Screed materials and floor screed – Properties and requirements" SR- B2-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".

Technical Properties:

Appearance (mixed) : Pigmented free-flowing liquid.
Specific gravity : 1.75 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 film thickness : from 1000 to 3000 microns in a single coat as required.
 Wet & dry thickness : up to 3 mm
 Compressive strength, ASTM D 579 : ≥ 70 (N/mm²)
 Flexural strength, ASTM C-239 : 45 (N/mm²)
 Tensile strength, ASTM D-638 : 20 (N/mm²)
 Bond strength to concrete : > 2.5 (N/mm²)
 Water absorption, ASTM D- 510: 0.1 %
 Abrasion resistance : 70 mg (Taber Abrasive, 1000 grams / 1000 revolution).
 Chemical Resistance: INDUFLOOR®-IB-SL3000 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
Ethanol	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®-IBSL3000 is exposed to the above mentioned reagents. It is important to implement regularly & proper housekeeping. Immediate cleaning of spillages prolongs the service life of any floor. For other/specific chemical reagents, please ask for technical support.

Consumption:

The following table may be used as a guideline based on a theoretically smooth, flat, well-primed surface:

Wet film thickness (µmm)	Wet film thickness (µmm)	Consumption kg/m ²
1500 (1.5mm)	1500 (1.5mm)	2.625
2000 (2.0 mm)	2000 (2.0 mm)	3.50
3000 (3.0 mm)	3000 (3.0 mm)	5.25

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.



Application Guide:*Surface Preparation:*

All surfaces must be sound, clean and free from dust, grease & oils, curing agents release agents and other contaminations adversely affecting the bond with the substrate. Steel or metal surfaces should be free from rust or scale in accordance with SA 2½ (white metal finish). All adhesion-preventing contaminants should be fully removed.

Priming:

Prior to application of INDUFLOOR®-IB-SL3000, 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) 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:

Pour the mixed materials onto prepared & primed substrates (while the primer is still tacky) and spread using a serrated trowel to the required thickness. After applying the mixed material, remove any entrapped air using a spiked roller. Applicators should wear spiked shoes to avoid smearing or deforming the product during application.

Packaging:

INDUFLOOR®-IB-SL3000 is supplied in 35 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-SL3000 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 the soil.
- Expired or out-of-pot-life material should be disposed of in accordance with environmental regulations.
- Splashes on the skin can be washed with soap and clean water.
- For more details about safety requirements, please refer to valid MSDS!