



Technical Data Sheet

INDUFLOOR-IB3359

2-Component, pigmented, solvent-free, multi-finish (slip-resistant, anti-skid and textured), chemical and abrasion resistant, epoxy floor coating

Product Description:

INDUFLOOR-IB3359 is 2-component, solvent-free, pigmented, epoxy resin-based chemical and abrasion resistant floor protective coating with a slip-resistant finish. INDUFLOOR-IB3359 has a suitable viscosity which enables achieving a textured or anti-skid finish using appropriate fillers.

Primary Uses:

INDUFLOOR-IB3359 is typically used in:

- Food and soft drinks processing areas.
- Chemical processing plants.
- Car production and showrooms areas.
- Pharmaceutical and medicine related facilities.
- Aircraft hangars and maintenance areas.
- Warehouses.
- Schools, hospitals, hotels, offices and commercial buildings.
- Wet processing and production areas.
- Commercial kitchens.

Advantages:

- Easy to mix and to apply.
- Solvent-free; odourless.
- Hygienic; easy to clean.
- Suitable viscosity, high filler systems, enabling universal applications.
- Does not support the growth of bacteria or fungus.
- Excellent abrasion resistance.
- High chemical resistant.
- Provides anti-slip finishes in trafficable applications.
- Durable, seamless and impermeable.
- Very good mechanical properties.
- Formulated to be suitable for the tropical and hot climates.

Standards:

INDUFLOOR-IB3359 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:	Component A is pigmented low viscosity liquid while Component B is clear liquid. Mixed materials are pigmented low viscosity liquid free from impurities.
Specific gravity:	1.45 at 20 °C
Solid content:	100 % by weight
Minimum application temperature:	+5 °C
Pot-life:	120 mins at 25 °C and 45 mins at 35 °C
Full cure:	7 days at 25 °C
Wet & dry thickness:	up to 3 mm
Compressive strength:	70 N/mm ²
Flexural strength:	45 N/mm ²
Shore D Hardness:	85
Bond strength:	> 4 (N/mm ²)
Water Absorption:	0.06 %
Chemical Resistance:	INDUFLOOR-IB3359 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:

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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-IB3359 is exposed to the above mentioned reagents.

It is important to note that proper housekeeping and immediate cleaning of spillages prolongs the service life of any floor.

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

Coverage & Consumption:

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

System	Dry Film Thickness	Product	Consumption
Primer	100 μ – 140 μ	INDUFLOOR-IB1280 or INDUFLOOR-IB1285	0.2 – 0.4 kg/m ² 0.25 – 0.45 kg/m ²
Smooth Coating (170 μ – 400 μ)	170 μ – 340 μ (per coat)	INDUFLOOR-IB3359	0.25 – 0.5 kg/m ² /coat
Textured coating	500 μ – 800 μ	INDUFLOOR-IB3359 INDUFLOOR-IB3359 INDU-Fiber Filler (1.0%-1.5% by weight of 2nd coat)	1st coat: 0.3 – 0.5 kg/m ² 2nd coat: 0.45 – 0.6 kg/m ² 4.5 – 9.0 g/m ²
Anti-skid (broadcast with Filler No. 2)	0.85 – 1.2 mm	1 Part INDUFLOOR-IB3359 Filler No. 2 broadcast INDUFLOOR-IB3359	1st coat: 0.35 – 0.55 kg/m ² 6.00 kg/m ² ; Net: 3.00 kg/m ² Seal coat: 0.35 – 0.65 kg/m ²

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.

Guidelines for application

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.

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Priming:

Prior to application of the INDUFLOOR-IB3359 system, use as appropriate INDUFLOOR-IB1280 or INDUFLOOR-IB1285 (refer to relevant data sheet).

Mixing:

The following procedure applies to the three surface finishes. However for the textured finish an addition of a thixotropic agent is necessary.

For smooth slip-resistant, skid-resistant & first coat only of textured finish:

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 consistent mix is achieved.

For the second coat of INDUFLOOR-IB3359 textured finish:

Gradually add – whilst mixing – the INDU-Fiber Filler (as necessary between 1.0% & 1.5% by weight of the INDUFLOOR-IB3359 pack used) and continue to mix until a uniform colour and consistent mix is achieved.

Smooth slip-resistant coating: Med (DFT 170µm) to high-build: (DFT: 400µm)

The system comprises of a prime coat followed by one to two coats of INDUFLOOR-IB3359 as follows:

Primer	INDUFLOOR-IB1280
1st Coat	INDUFLOOR-IB3359
2nd Coat (optional)	INDUFLOOR-IB3359

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

Wet film thickness (µm)	Dry film thickness (µm)	Consumption kg/m ²
175	175	0.25
275	275	0.45
400	400	0.58

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:

Brush apply the first coat of the mixed material onto the well prepared & primed substrate (right after the primer is tack-free) or alternatively pour & spread by squeegee at a rate of 0.25 – 0.50 kg/m². Airless spray application is also possible.

Apply the second coat after 12 hours & before 24 hours have elapsed using the same application procedures of the first coat at a coverage rate also 0.25 – 0.50 kg/m².

Textured Coating: (DFT 500µm – 800µm)

System	
Primer	INDUFLOOR-IB1280
1st Coat	INDUFLOOR-IB3359
2nd Coat	INDUFLOOR-IB3359 + INDU-FIBER FILLER 1.0% to 1.5% by weight

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

Wet film thickness (µm)	Dry film thickness (µm)	Consumption	
		INDU-FIBER FILLER (Grams)	INDUFLOOR-IB3359 (kg/m ²)
500	500	4.5	0.45
800	800	9.0	0.58

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:

Brush apply the first coat of the mixed material onto the well prepared & primed substrate (right after the

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primer is tack-free) or alternatively pour & spread by squeegee at a rate of 0.30 – 0.50 kg/m². Airless spray application is also possible.

Apply the second coat (containing the INDU-FIBER-FILLER after 12 hours & before 24 hours have elapsed using the same application procedures of the first coat (airless spray not possible) at a coverage rate also 0.45 – 0.60 kg/m².

Anti-skid finish; Average DFT from 850µ to 1200µ

This system consists of the following product usage:

Primer	INDUFLOOR-IB1280
First Coat	INDUFLOOR-IB3359
	+
Broadcast	Filler No. 2 (to rejection whilst the first coat is still wet)
Second Coat	INDUFLOOR-IB3359

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

Wet film thickness (µm)	Dry film thickness (µm)	Consumption (kg/m ²)		
		FILLER No. 2		INDUFLOOR-IB3359
		Broadcast	Net (after removing excess)	
850	850	5.0	2.5	0.70
1200	1200	6.0	3.0	1.15

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:

Brush apply the first coat of the mixed material onto the well prepared & primed substrate (right after the primer is tack-free) or alternatively pour & spread by squeegee at a rate of 0.35 – 0.55 kg/m².

Broadcast to rejection, FILLER No.2 as early as possible onto the still wet INDUFLOOR-IB3359 at a rate between 5.0 kg & 6.0 kg per square meter.

On the following day remove all excess FILLER No.2 by sweeping or vacuuming. The removed FILLER No.2 may be re-used for future applications.

Apply the second coat within 24 to 36 hours using the same application procedures of the first coat at a coverage rate also 0.35 – 0.65 kg/m².

Cleaning:

Clean all tools and equipment with INDU-IB Cleanser immediately after finishing of work Hardened materials will be removed mechanically

Packaging:

INDUFLOOR-IB3359 is supplied in 5 kg and 20 kg packs in two components.

INDU-FIBER-FILLER is supplied in 0.5 kg bags & FILLER No.2 is supplied in 25 kg bags

Storage & Shelf-life:

Both components of INDUFLOOR-IB3359 have a shelf life of 12 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.

INDU-FIBER-FILLER & FILLER No.2 have a shelf life of 12 months.

Health & Safety:

- INDUFLOOR-IB3359 is non-hazardous during handling, storage and use.
- 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!