



i-FLOOR SL

TECHNICAL DATA

Product Description

i-FLOOR SL is a high-gloss self-smoothing resin floor finish generally applied at 2-3mm.

Uses

i-FLOOR SL is formulated specifically for the Dry process areas where the floor is subjected to foot, trolley, pallet truck and/or rubber wheeled fork lift traffic. Typical uses include laboratories, clean room environments, or warehousing, storage areas in pharmaceutical, electronic, aerospace, automotive and printing plants.

Benefits

- Attractive, enhances working environment
- Hygienic – easy to clean
- Non-tainting, non-dusting
- Hard wearing floor finish
- Abrasion resistant
- High chemical resistance grade available
- Wide range of colour
- Solvent free, low odour

Standard Color Chart

		
Ivory 1014	Yellow 1037	Red 3002
		
Sky Blue 5015	Ocean Blue 5024	Light Grey 7047
		
Mid Grey 7045	Pastel Green 6019	Traffic Green 6024

Color matching available with sufficient lead time and minimum order requirement.

Substrate

i-FLOOR SL is suitable for application over concrete, wood, tile or metal. Not recommended on asphalt or painted surface.

Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm², free from laitance, dust and other contamination. The substrate should be dry to 75% RH as per BS8204 and free from rising damp and ground water pressure.

System Options

Cove Base

To provide for an integral seal at the joint between the floor and wall. Coving can be formed with i-FLOOR Coving Mortar in conjunction with i-FLOOR Primer.

Packaging

i-FLOOR SL is packaged in 30 kgs./set, consist of: Part A and Part B and Part C.

Coverage

Each set of i-FLOOR SL will cover.

Top coat i-FLOOR SL 1.8 kg per sq.m. Thickness 1mm.

Substrate preparation

Proper preparation is critical to ensure an adequate bond. The substrate must be dry and free of grease, fats, oil and laitance. Totally enclosed shot blasting or scarification. The surface must be show open textured surface like a sand paper texture.

Priming

Normal porous surfaces should be fully sealed and primed using one coat of i-FLOOR Primer. Each 0.2 kg primer will cover approximately one sq.m.

Mixing

- Add Part B into Part A Mix with the blender for 60 seconds.
- Add Part C and mix with blender for 120 seconds.
- Scrape out residue of previous mix from the sides of the drum and discard before mixing the next pack.

Pot life

i-FLOOR SL has working time of approximately 20-30 minutes at 30°C. The working time will vary depending on temperature.

Application

- Material must be use immediately after mixing.
- Use screed rake to distribute the mixed onto the floor.
- Use V-notched hand trowel pull the trowel through the material at right angles to the floor.
- Use a spiked roller to roll the material for allows air to escape and for the aggregate to be pushed down allowing liquids to come to surface.

Hardening Time

At 30°C allow:

- 12 hours for light traffic.
- 24 hours for full traffic.
- 5 days for fully chemical cure.

Shelf Life

Store unopened in dry conditions at 25-35°C. Avoid excessive heat and do not freeze. The shelf life is 12 months in original, unopened container.

Cleaning up

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvent.

Important

If any unusually long delay should arise, such as a break for lunch, it will be necessary to completely clean all mixing paddles and pails before ceasing operation. This is extremely important. Doing this will prevent the later contamination of the new batches of i-FLOOR SL with particles of partially cured material when the mixing operation starts up again after the break. The presence of such particles would seriously affect the troweling and finishing of the floor.

Caution

Avoid contact with Part A and B as they may cause skin and/or eye irritation. In case of contact, immediately flush area with copious amounts of clean water for at least 15 minutes. Seek medical attention. Applicators should cover hands with impervious gloves. Wash hands thoroughly with soap and water after use, and before eating, smoking, etc.

Physical/chemical characteristics

Compressive Strength (ASTM C-579)	60 N/mm ² after 7 days
Tensile Strength (ASTM C-307)	25 N/mm ²
Flexural Strength (ASTM C-580)	40 N/mm ²
Hardness (ASTM C-2240/Shore D Durometer)	75-80
Abrasion Resistance (ASTM D4060 Taber Abrader)	50mg loss per 1000 cycles (1 kg load using H22 wheels)
Bond strength (ASTM C-4541)	> 2.5 MPa (100% concrete failure)
Water absorption (ASTM C-413)	0%
Vapour Permeability	4 gms / m ² / mm / 24 hours
Slip Resistance Pendulum Slip Test	Dry 67 Wet 26