



Sovereign Hi-tech Rapid FLR

A high quality, polymer modified, cementitious self-levelling compound, designed to give a smooth, durable floor finish.



Product Code
30806173

Description

Sovereign Hi-Tech Rapid FLR is a high quality, polymer modified, cementitious self-levelling compound, designed to give a smooth durable floor finish. It has excellent abrasion properties for both a new floor, and repairing existing floors.

Form Supplied: Dry Powder

Pack Sizes: 25 kg

Colour Range: Grey

Contains: Blend of cements, selected fillers, special additives, and a dispersible polymer.

Properties

Sovereign Hi-Tech Rapid FLR is self-smoothing, dimensionally stable, and fast drying. It is suitable for use in a wide range of industrial environments such as warehouses, food-processing plants etc. subjected to medium to heavy traffic.

Typically Hi-Tech FLR can be pumped up to 1800 m² per day, alternatively coverage of 600 m² can be achieved when hand applied, dependent upon manpower and equipment used.

Sovereign Hi-Tech Rapid FLR can be used in conjunction with Sovereign Epoxy Floor Paint or as a stand-alone surface.



PREPARATION

Floor surfaces must be sound, smooth, dry and free from contaminants that may prevent adhesion. Use propriety cleaners for removing grease, oil, polish, soap etc. from non-absorbent substrates.

Concrete and sand/cement screeds must be fully cured and any laitance or surface treatments must be removed.

The temperature of the floor must be maintained above 5°C throughout the application and drying of the underlayment. Under floor heating must be off for at least 48 hours before and after application.

PRIMING

Application on to sand:cement screeds, tamped concrete and other porous substrates, first seal the prepared surface by applying one coat of Sovereign Neoprene Primer diluted with 4 parts water and allow to dry. Once sealed prime with Neoprene Primer diluted with 3 parts water.

Application onto all other surfaces including Surface Damp Proof Membranes (SDPM's) and non-absorbent surfaces prime with neat Sovereign Neoprene Primer to ensure that good adhesion is obtained.

HAND APPLICATION

Use a power-whisk fitted in a heavy-duty slow speed electric drill. Mix in the proportion of 25 kg of powder to 4.5-litres of clean water. Pour the water into a suitably sized bucket and gradually add the powder while stirring, until a smooth, lump free consistency is achieved.

PUMP APPLICATION

Mix the powder and water according to the method recommended by the pump manufacturers. In the case of pumps having continuous water feed adjust the rate of water flow until the mix is a smooth fluid, uniform grey liquid with no surface separation.

USAGE

Pour or pump the mixed material onto the prepared surface and allow to attain a smooth finish. The use of a spiked roller will help eliminate entrapped air and smooth out flow lines. Apply at a thickness between of 5 mm to 10 mm in one pass only.

CLEAN UP

Wash tools with water immediately after use.

LIMITATIONS

Do not place when the substrate temperature is below 5°C or when the ambient temperature is 10°C and falling.

Protect from frost

Do not exceed the maximum recommended water content and only use clean cold water.

COVERAGE

A 25 kg bag laid at nominal 5 mm thickness: 3m²

Flow Properties using 50 cc flow ring	170mm
Shrinkage ($\mu\text{m/m}$) at 28 days ASTM C490-00a	<550
Workability	25 minutes
Abrasion Resistance BS8204:Part 2:2002	Special Case
Vicat Setting Time	1.5 hours
BRE Screed Test BS8204:Part 1:1999	1.6mm
Slip Resistance BS8204:Part 2:1999	Dry 60 Wet 42
Foot Traffic	3 hours
Light Traffic	24 hours
Heavy Traffic	3 days
Compression Strength (N/mm^2) BS6319 pt2	
1 Day	>15.0
7 Days	>30.0
28 Days	>40.0
Compression Strength (N/mm^2) BS6319 pt2	
7 Days	>7.0
28 Days	>10.0

Storage: This product must be stored under cover, in unopened bags clear of the ground in cool dry conditions, protected from frost and excessive draught.

Shelf Life: When stored correctly, this product has a shelf life of 6 months.

HEALTH & SAFETY

- ! Contains Cement, portland, chemicals. May produce an allergic reaction.
- ! Contact between cement powder and body fluids (e.g. sweat and eye fluids) may cause irritation, dermatitis or burns.
- ! There is a risk of serious damage to eyes. Wear suitable protective clothing, gloves and eye/face protection. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.
- ! After contact with skin wash immediately with plenty of clean water.
- ! Keep out of reach of children.



**Health & safety information
available on request**



Important Disclaimer

The information given is in good faith based on experience and usage, however all recommendations are made without warranty or guarantee, since the conditions of use are beyond our control. All goods are sold in accordance with our Conditions of Sale, copies of which are available on request. Customers are advised that product, techniques and codes of practice are under constant review and changes occur without notice. Please ensure you have the latest updated information.



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Sovereign Hi-tech Rapid FLR

Technical
Data Sheet

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