

'FASTFLOOR-IT' Cementitious self-smoothing floor screed, 5 – 25 mm.

PRODUCT DESCRIPTION

FASTFLOOR-IT is a revolutionary, new, highly durable, polymer-modified, cementitious, pump-applied, self-smoothing screed for floor installation and renovation, providing an extremely hard-wearing finish. When mixed with water, **FASTFLOOR-IT** gives a highly fluid, fast-setting, self-smoothing screed. It is non-hazardous and possesses a low odour.

After hardening and sealing, **FASTFLOOR-IT** gives an attractive, long lasting surface.

Fast track application methods combined with rapid strength gain enable total floor screed installation to take place over a few days.

USES

Use **FASTFLOOR-IT** to refurbish Old, damaged concrete floors or, **alternatively**, to provide a hardwearing screed to New concrete floors.

SPECIAL PROPERTIES

- Fast track installation
- Medium to Heavy duty
- Provides wearing surface
- Pump-applied
- Self smoothing
- Fast setting, allows early access
- Rapid strength gain
- Large area application
- Can be over-coated or tiled

METHOD OF USE

Preparation

The concrete substrate should be free from oil, grease or other contamination and lightly textured. Any loosely bonded material and dust must be removed. Expansion joints, large potholes and other damage to the floor should be repaired with Concrete Grinding (Asia Pacific) Pte Ltd repair mortar. Expansion joints must be re-sawn and filled with a suitable jointing compound after the **FASTFLOOR-IT** has been sealed. Day joints and stable cracks should be thoroughly cleaned out (sawn with a 5mm cut if necessary) and filled with Concrete Grinding (Asia Pacific) Pte Ltd grout. If captive blasting is required to texture the substrate, this should be carried out **after** repairs and joint preparation to ensure a good key.

The relative humidity of the concrete substrate should not exceed 75% at time of application.

Prime the surface with a minimum of two coats of Concrete Grinding (Asia Pacific) Pte Ltd **Screed Primer** diluted 1 part primer to 3 parts water.

For open textured or very porous substrates the first coat of primer may be diluted 1 part primer to 5 parts water to enhance penetration into the substrate.

The **Screed Primer** should be applied by a soft broom allowing the first coat to dry before the application of the second coat. Coverage will vary depending upon the porosity of the substrate.

The **Screed Primer** should be touch-dry before the application of the **FASTFLOOR-IT**.

Application

FASTFLOOR-IT may be pumped using a Concrete Grinding (Asia Pacific) Pte Ltd floor-screed pump. The water flow rate should be adjusted to achieve the required flow (See Technical Data below). After placing, spread to the required thickness using a pin trowel. Entrapped air and residual trowel marks should be removed by use of an appropriate type of spiked roller.

FASTFLOOR-IT may also be applied manually. Add one 25kg unit of powder to 5.25 litres of clean water in a clean mixing vessel and mix using a slow speed drill fitted with an Concrete Grinding (Asia Pacific) Pte Ltd mixing paddle. Mix for a minimum of 3 minutes or until a smooth, lump-free, uniform colour consistency is achieved. Pour the mixed **FASTFLOOR-IT** onto the floor and spread to the required thickness using a steel float or pin screed. Entrapped air and residual trowel marks should be removed by use of an appropriate type of spiked roller.

Under no circumstances should the recommended water level be exceeded.

The minimum application, priming and curing temperature is 5°C. However, best results will be obtained at temperatures of between 10°C and 25°C. For temperatures outside of this range please contact Concrete Grinding (Asia Pacific) Pte Ltd.

Sealing

FASTFLOOR-IT should always be sealed with Concrete Grinding (Asia Pacific) Pte Ltd **Screed Sealer** between 12 and 48 hours after application is completed. Mix part A and part B of the sealer together to a uniform consistency. The mixed sealer should then be applied with a medium or short pile roller at a rate of 10-15m² per kg, avoiding the formation of pools. A second coat of sealer may be beneficial to further enhance the aesthetics of the finished floor. Rollers should be cleared of loose fibres before use as these may adhere to the floor.

Both **FASTFLOOR-IT** and Concrete Grinding (Asia Pacific) Pte Ltd **Screed Sealer** should be cleaned from all tools with water before the material hardens.

FASTFLOOR-IT floors may be subject to minimal colour variation. This does not affect the performance of the floor.

(See next page for Technical Data)

TECHNICAL DATA

Packaging:	Screed Primer: 5 & 10 kg packs. FASTFLOOR-IT: 25 kg bags. Screed Sealer: 5 & 10 kg – 2 component packs	Final Set: 3-4 hours @ 20°C. This figure will be affected by variations in temperature.
Screed Primer Ratio:	Normal Substrates: First coat diluted 1 part to 3 parts water. Second coat diluted 1 part to 3 parts water. Apply 2 coats. Porous Substrates: First coat diluted 1 part to 5 parts water. Second coat diluted 1 part to 3 parts water. Apply 2 coats.	Compressive Strength: Tested to BS 1881:Part 116:1983 >25 N/mm ² @ 28 days
Screed Primer S.G.:	1.07 kg/ltr.	Flexural Strength: Tested to BS 6319:Part 3:1983 > 6.0 N/mm ² @ 28 days
Coverage:	Screed 0.13 kg /m ² /per coat diluted Primer : 1 part primer to 3 parts water 0.15 kg/m ² /per coat diluted 1 part primer to 5 parts water. FASTFLOOR-IT (dry powder 1.74 kg/m ² /mm weight) : Minimum 7mm thickness. Screed Sealer : 10-15m ² per kg.	Tensile Strength : Tested to BS 6319:Part 7:1983 > 3.0 N/mm ² @ 28 days Adhesive Strength: > 1.5 N/mm ² (to primed concrete) Abrasion Resistance: Conforms to BS 8204 'AR1' Class Impact Resistance: Tested to BS 8204-2:1999 < 1.0mm
Yield:	14.4 litres per 25kg bag	Storage: 12 months minimum when stored in cool, dry conditions in original, unopened containers.
Flow:	Tested using a BS 6463 Flow Mould @ 20°C Target : 270 ± 30 mm [The flow mould should be placed on a flat, level surface and filled to the top with the screed material. The material should then be released by carefully lifting the flow mould from the surface. Once the material has stopped moving the diameter of the FASTFLOOR-IT should be measured.]	Safety: FASTFLOOR-IT contains cement and is thus alkaline in contact with water. Prolonged exposure to the skin should be avoided. For more detailed information reference should be made to the Fastfloor-IT Health & Safety Data Sheet.
Mixing Ratio:	One 25kg bag of FASTFLOOR-IT should be added to 5.25 litres of clean water.	
Colour :	Natural (non-pigmented).	
Wet Density:	2100 kg/m ³ .	
Minimum depth:	5 mm.	
Maximum depth:	25 mm. For applications over 25mm, please contact Concrete Grinding (Asia Pacific) Pte Ltd.	
Pot life:	20 minutes @ 20°C. This figure will be affected by variations in temperature.	

SPECIFICATION CLAUSE

The prepared concrete substrate shall be primed with 2 coats of Concrete Grinding (Asia Pacific) Pte Ltd Screed Primer diluted 1 part primer to 3 or 5 parts with water (5 parts for porous substrates – 1st coat only) and Concrete Grinding (Asia Pacific) Pte Ltd **FASTFLOOR-IT** cementitious self-smoothing screed applied when the 2nd coat of primer is touch dry. (See note 1 below). Between 12 and 48 hours after laying, the screed shall be sealed with Concrete Grinding (Asia Pacific) Pte Ltd Screed Sealer.

The screed compound shall be highly fluid, fast-setting and shall have a compressive strength of >25 N/mm² and a flexural strength of >6.0 N/mm² at 28 days. The manufacturer shall be a Registered Firm to ISO 9001.

Concrete Grinding (Asia Pacific) Pte Ltd **FASTFLOOR-IT** shall be laid by an experienced floor screed contractor, strictly in accordance with the manufacturer's current Technical Data Sheet, Specification and Instructions For Use.

Note 1: Permitted thickness range for Concrete Grinding (Asia Pacific) Pte Ltd **Fastfloor-IT** is from 5mm to 25mm.