



New Guard Coatings Group

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NORTH • SOUTH EAST • MIDLANDS • NORTH WEST • HULL • SCOTLAND

**ULTRA
FLOOR**

Fill



**RAPID
SETTING & DRYING
FLOWABLE BULKING CONCRETE**

A rapid setting and drying flowable bulking concrete for both internal and external use.

TECHNICAL DATASHEET

- 20 minute set time
- Up to 300mm application without bulking aggregates
- Cover times: 12 hours at 30mm/
24 hours at 300mm
- Self compacting
- Internal and external applications



25^K_G

INFORMATION

UltraFloor Fill IT is a general purpose, rapid setting flowable backfilling concrete designed to eliminate the on-site bulking of underlayments with aggregates in deep section repairs. Its self-compacting flow properties make it a very easy material to apply to a variety of internal and external substrates. UltraFloor Fill IT is suitable for applications from 30mm-300mm in one pass. Its rapid setting and drying properties allow it to be covered with final floor finishes within 24 hours.

USES

UltraFloor Fill IT is a general purpose rapid setting and drying flowable concrete designed to eliminate the on-site bulking of underlayments with aggregates for unwanted manholes, gullies, drainage and utility channels and deep section internal and external repairs. The product is suitable for applications between 30 to 300mm and sets within 20 minutes, its rapid setting and drying properties allow it to be covered with further underlayments and final floor finishes in as little as 12 hours.

SUBFLOOR PREPARATION

Apply UltraFloor Fill IT to a sound, clean surface free from contaminants and dust. The substrate should be roughened and scabbled to provide a good bond key. It is essential that the repair edges are saw cut square to a minimum depth of 30mm. Feather edging is not recommended.

PRIMING

Absorbent Subfloors: Priming with UltraFloor Prime IT Multi-surface primer (MSP) typically diluted 3 parts water to 1 part primer is recommended to promote adhesion, control the curing profile, give the optimum flow and handling characteristics. Allow primer to fully dry.

Non-absorbent Subfloors: Priming with UltraFloor Prime IT MSP is required when applying UltraFloor Fill IT onto non-absorbent or very dense substrates such as quarry tiles, terrazzo and surface applied epoxy DPMs. Apply neat and allow primer to fully dry.

Metal: Metal surfaces or reinforced steel must be drained so that all rust and scale is removed. These should also be free from oil, grease and paint. Apply UltraFloor Prime IT MSP neat and allow primer to fully dry.

MIXING

UltraFloor Fill IT can be mixed mechanically or by hand. If by hand, ensure that the mixing is vigorous. Mix the inner bag containing the cement with the sand/aggregate. UltraFloor Fill IT is formulated to be mixed to a smooth flowable consistency. It is advisable to add a maximum of 1.25 litres of water initially, mix and if required, add up to a further 0.25 litres up to max of 1.5 litres per 25kg bag. NOTE: It is essential that this product not be over-watered. The addition of excessive water will result in slower strength gain, reduced final compressive strength and the possibility of shrinkage cracking. Sand/aggregate contains moisture and the volume of water required will vary depending on the moisture content of the aggregate. Mix only enough material to apply within 4 minutes. Never remix or add water.

APPLICATION

UltraFloor Fill IT should be poured into place to achieve the required depth, prior to application of finish surfaces. The self-compacting nature of UltraFloor Fill IT allows placement without the need for trowelling.

TECHNICAL DATA

Working Time	5-10 minutes
Setting Time	15-30 minutes
Compressive Strength	1 Day – 20 N/mm ² 7 Days – 35 N/mm ² 28 Days – 45 N/mm ²
Flexural Strength	1 Day – 3.0 N/mm ² 7 Days – 4.0 N/mm ² 28 Days – 5.0 N/mm ²



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COVERAGE RATES

2.5 x 25kg bags covers approximately 1m² at 30mm depth.

CLEANING

UltraFloor Fill IT should be removed from tools and equipment with clean water immediately after use. Cured material can also be removed mechanically.

STORAGE

Store in closed original packaging at temperatures between 5°C and 30°C. Avoid frost.

SHELF LIFE

If stored correctly and used within 6 months of the date shown on the bag, the activity of the reducing agent will be maintained and this product will contain, when mixed with water, no more than 0.0002% (2 ppm) soluble Chromium (VI) of the total dry weight of the cement. Shelf life in correctly sealed bags is 6 months. Please note: the use of this product after the end of the declared storage period may increase the risk of an allergic reaction. High temperatures and high humidity will lead to a reduced shelf life.

All products are manufactured in a plant whose quality management system is certified/registered as being in conformity with BS EN ISO 9001, ISO 14001 and OHSAS 18001.

HEALTH, SAFETY AND ENVIRONMENTAL

Please ensure that appropriate PPE is used when preparing, mixing and applying products. Always wash hands before consuming food and make sure that materials are kept safely out of reach of children and animals. Please dispose of packaging and waste responsibly and in accordance with local authority requirements. A full material safety data sheet relating to this product is available from instarmac.co.uk.

QUALITY ASSURANCE

All products are manufactured in a plant whose quality management system is certified/registered as being in conformity with BS EN ISO 9001, ISO 14001 and OHSAS 18001. Our products are guaranteed against defective materials and manufacture and will be replaced or money refunded if the goods do not comply with our promotional literature. We cannot however accept responsibility arising from the application or use of our products because we have no direct or continuous control over where and how projects are used. All products are sold subject to our conditions of sales, copies of which may be obtained upon request.

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Please ensure that this is the current and relevant product technical datasheet by referring to our company website, instarmac.co.uk.
Product development and improvement is an ongoing process.

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