

SCREEDMASTER 2 ULTIMATE



TWO COMPONENT SMOOTHING COMPOUND



DESCRIPTION

A two component smoothing compound that consists of a powder containing specially blended cements, sands, and special additives, and a protein free synthetic rubber gauging liquid. Screedmaster 2 Ultimate is supplied in ready to mix quantities to give a trowellable free flowing mortar.

USES

For smoothing uneven floors prior to laying decorative floor coverings. It is suitable for application to most common substrates.

- Screedmaster 2 Ultimate is totally protein and casein free and is suitable for use in biologically sensitive areas.
- The low odour formulation makes Screedmaster 2 Ultimate ideal for use in buildings that are occupied and have closed environments enabling adjacent areas to be used, without discomfort to occupants even during application.
- The high rubber content makes Screedmaster 2 Ultimate suitable to apply direct to old adhesive residues (thin, firmly bonded, moisture tolerant adhesives).
- The moisture tolerant formulation enables Screedmaster 2 Ultimate to be used to smooth rough textured subfloors prior to the application of Screedmaster Damp Proof Membranes.
- Screedmaster 2 Ultimate has excellent workability and flow characteristics, is self smoothing and can be trowelled to a feather edge.

Suitable for use with underfloor heating installations provided a surface temperature of 27°C is not exceeded. Screedmaster 2 Ultimate is not affected by heat from central heating pipes, radiant heating mats or in glazed areas. Heating should be switched off at least 48 hours before applying the compound and should be brought back to temperature in accordance with the manufacturers instructions.

Screedmaster 2 Ultimate will accept most flooring adhesives in current use.

Screedmaster 2 Ultimate must not be regarded as a substitute for a damp-proof membrane in direct-to-earth floors and must not be used over existing vinyl or similar resilient floorcoverings.

PREPARATION

All phases of the installation should comply with the latest editions of the following standards:

BS 8102 Code of Practice for protection of buildings against water from the ground.

BS 5325 Code of Practice for the installation of textile floor coverings.

BS 8203 Code of Practice for installation of resilient floor covering.

BS 8201 Code of Practice for flooring of timber, timber products and wood based panel products.

The subfloor should be clean, structurally sound, dry and free from surface laitance and contamination, including surface hardeners and additives that may hinder adhesion. Any deep depressions in the floor should be filled with Rapid Repair Mortar. Allow to dry.

PROTEIN FREE



EXCELLENT ADHESION



LOW ODOUR



**SUITABLE UNDER
A DAMPROOF MEMBRANE**

GAUGING LIQUID

Synthetic Rubber

APPROX. COVERAGE

5-6m² at 3mm thickness

APPLICATION TEMP. LIMITS

5-35°C

APPLICATION THICKNESS

Feather edge to 10mm

WORKING TIME AT 20°C

15 minutes: depending on site conditions

COMPRESSIVE STRENGTH

Typically 28 N/mm² after 28 days

FLEXURAL STRENGTH

Typically 10 N/mm² after 28 days

SIZE

23kg Powder, Liquid 5L

The subfloor should be tested in accordance with British Standards, using a properly calibrated and insulated hygrometer. A reading of 75% RH or less confirms that the subfloor is satisfactorily dry. Where this has not been attained on cementitious subfloors it is necessary to incorporate a Screedmaster epoxy surface membrane to suppress residual moisture.

For further information contact Flooring Technical Services.

PRIMING

Priming of subfloors is extremely beneficial and should be considered an important part of the application of smoothing compounds.

Porous subfloors: Prime with Screedmaster Universal Primer (diluted with 2 parts water to 1 part primer) before application. Allow to dry. This will improve flow characteristics and minimise pin-holes. It will also minimize the need to sand down the floor after the smoothing compound has cured.

Non Porous Subfloors (metal, membranes, highly polished stone etc): To improve adhesion to non porous substrates, apply the Screedmaster Universal Primer neat and allow to dry.

Flooring Grade Asphalt: For best performance asphalt should be primed using a slurry coat of Screedmaster 2 Ultimate. The slurry coat should comprise a mix of 1 part powder to 1 part liquid by volume. Apply thinly and allow to dry.

Other subfloors: For materials such as calcium sulphate, (anhydrite), magnesite and other proprietary materials please contact Flooring Technical Services for the correct priming recommendation.

Adhesive residues: Provided that the adhesive residue is in a thin firmly bonded film and is not susceptible to moisture then Screedmaster 2 Ultimate can be applied directly.

Prior to application of a Screedmaster surface DPM: Dampen the surface of the subfloor with water to prevent pin holing of the smoothing compound.

Priming with Screedmaster Universal Primer is recommended for depths up to 8mm. For thicknesses in excess of this please contact Flooring Technical Services.



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Please refer to the disclaimer at the bottom of the final page of this Technical Data Sheet



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Mixing

Materials are in ready to use quantities of 23kg Screedmaster 2 Ultimate powder and 5 litres Screedmaster 2 Ultimate liquid. Shake the liquid vigorously before pouring into a suitable mixing container. Add the powder gradually, stirring continually with an electric stirrer. This will prevent the formation of lumps. The mix will be dispersed in 2 minutes. Use the mixed compound immediately. If the mix stiffens before it has been spread, it must be discarded. Do not add extra water or liquid. The correct mix permits normal application from a feather edge to the values shown below, although for best results a minimum 3mm application is recommended. A minimum of 3mm is required on non absorbent substrates.

Bulking out

When bulking out of Screedmaster 2 Ultimate is required (depths greater than 10mm) the mix should be bulked out with 3mm granite chippings. To the above mixture of 1 bag of powder and 1 bottle of liquid add half a 25kg bag of chippings, whilst continually stirring until thoroughly mixed.

APPLICATION

A room temperature of 13 – 18°C should be maintained for at least 24 hours prior to the application with a subfloor temperature of at least 5°C during application. Spread evenly over the floor surface with a steel screeding trowel to give the required thickness. Once laid, a second trowelling can be carried out after 15 to 30 minutes depending on site conditions.

Screedmaster 2 Ultimate has a curing profile designed to enable easy rub down where required up to 16 hours after application. This allows any trowel marks remaining after the compound has set to be readily rubbed down with a sanding block. Alternatively, the use of a spikey roller immediately after trowelling will give a smooth finish. Avoid excessive rolling as this may result in surface laitance, which will then need to be removed when cured.

Use under a Screedmaster DPM.

When smoothing a rough floor prior to applying a Screedmaster DPM a minimum 3mm of Screedmaster 2 Ultimate is required. A Screedmaster DPM can be applied after a minimum of 12 hours based on good ambient drying conditions.

When used over a Screedmaster surface damp proof membrane or other impervious surfaces it is essential that a minimum 3mm thickness is applied in order to provide an absorbent medium for the adhesive.

Screedmaster 2 Ultimate should always be covered with a floor covering. The resultant smoothing compound is strong enough to be used in accordance with the following EN 685 classifications: Strong enough to be used in areas up to and including: General light industrial.

Drying Time (20°C and 3mm thickness)

Will take foot traffic after 1 1/2 hours.
Loose lay floor coverings after 8 hours.
Bond floor coverings after 12 hours.
On non absorbent subfloors lay floor coverings after 24 hours.

NOTE: A room temperature of 13 - 18°C should be maintained with a minimum floor temperature of 5°C. The walk on time and setting time will be delayed if the powder and liquid have been stored at temperatures below 10°C or when used on a cold floor.



SUMMARY TABLE

Screedmaster 2 Ultimate is suitable for application to the following:

Substrate	
Concrete	Yes
Sand/cement screeds	Yes
Stone	Yes
Anhydrite (calcium sulphate) screeds	Yes
Rigid metal	Yes
Terrazzo and quarry tiles	Yes
Old adhesive residue dependant on preparation.*	Physically remove old adhesive residue to leave a thin, firmly bonded film.
Asphalt	Yes (max 5mm)
Old bituminous residues	Yes On upper floors and ground floors with base dpm.

*Screedmaster 2 Ultimate should not be used over old tackifier or water soluble adhesive residues.

Coverage: 23kg powder mixed with 5 litres liquid will cover 5 - 6m² at 3mm thickness.

Cleaning of Tools: Clean immediately after use with clean water.

Storage:

Powder: 6 months under good storage conditions in original, unopened bags. Ensure bags are transported and stored in a dry place. Do not store over bare earth.

PROTECT FROM DAMP, CONDENSATION, DEW ETC.

Liquid: 12 months when unopened and stored under good conditions.

PROTECT FROM FROST and store out of direct sunlight.

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