

TECHNICAL DATA SHEET

Kelmore Feather

01/01/24

Kelmore's Feather is an ultra-rapid drying, highly polymer modified, patching and smoothing compound designed to smooth floors prior to installing resilient floor coverings. Able to be applied from a feather edge up to 3mm thick and ensuring excellent adhesion, Kelmore Feather can be used to smooth out any surface imperfections on cement:sand screeds, concrete, levelling and smoothing compounds, and calcium sulphate screeds. Possessing exceptional flexibility, Kelmore Feather seamlessly fills and smooths board joints and fixing points in plywood. Providing an extremely smooth surface finish, this ultra-rapid drying product allows floor coverings to be applied after just 15 minutes.

Kelmore Feather has been manufactured to the highest of standards using unique technologies, extensive knowledge and outstanding raw materials. When compared to the production of traditional cementitious finishing compounds, this results in a significant reduction in CO₂ emissions.





Kelmore Feather

Classification (EN 13813)		CT-C16-F6
Pack Size		11kg
Powder to water ratio (by volume)		Approximately 3:1 (3 parts powder to 1 part water)
Application Temperature (air and background)		≥ 5°C
Application Thickness		Feather edge to 3mm
@20°C	Working time	10 minutes
	Walk on	15 minutes
	Fit resilient floor coverings after	15 minutes
Consumption per mm thickness		Approximately 1.1kg /m ²
After 28 Days	Compressive Strength	16 N/mm ²
	Flexural Strength	6 N/mm ²

Areas of Use

Floors	Interior	Domestic	Commercial	Heated Screeds	Limited Movement/Vibration
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Suitable Floor Backgrounds					PRIMER
Cement:Sand Screed (inc. Heated)	Concrete	Existing Ceramic, Porcelain, and Natural Stone Tiles	Levelling and Smoothing Compounds	Plywood Overlay (Class 3)	None Required
 Calcium Sulphate/Anhydrite Screed (inc. Heated)					PrimeMore CS
 Prime with one neat, undiluted coat of PrimeMore CS. The primer must be allowed to dry before applying Kelmores Feather.					

BACKGROUND AND SURFACE PREPARATION

Backgrounds must be sufficiently dry and strong enough to carry the total weight being applied. All surfaces must be clean, sound and free from contaminants that could inhibit adhesion, such as dust, dirt, oil, grease, laitance, and curing agents.

Guidance notes on suitable floor backgrounds

The following backgrounds do not require priming.

CEMENT:SAND SCREED: Screeds must have an effective structural damp proof membrane and be confirmed dry, no greater than 75% Relative Humidity (RH).

HEATED CEMENT:SAND SCREED: New heated screeds must be commissioned before commencing work. This can be started from 3 weeks after the screed has been installed, and the screed should be heated slowly at a maximum rate of 5°C per day until the maximum operating temperature (as recommended by the heating manufacturer) is reached. Hold this temperature for 3 days before switching off the underfloor heating and allowing the screed to cool. *All proprietary cementitious screeds should be commissioned and prepared in accordance with the recommendations of the screed manufacturer.* Ensure the moisture content of the screed is no greater than 75% Relative Humidity (RH) and the underfloor heating has been switched off at least 48 hours prior to applying Kelmores Feather.

CONCRETE: The concrete must have an effective structural damp proof membrane and be confirmed dry, no greater than 75% Relative Humidity (RH).

Power floated concrete should be mechanically prepared by suitable means to provide a clean, sound, micro-textured, dust free surface.

EXISTING CERAMIC, PORCELAIN, AND NATURAL STONE TILES: Must be in good condition, free of any contaminants and well bonded to a base containing an effective structural damp proof membrane. Ensure the existing structure can take the additional weight.

The adhesive used to fit the resilient floor covering must be compatible with the background below Kelmores Feather. Alternatively, apply a smoothing layer at a thickness of no less than 3mm to provide an absorbent base for the application of adhesives.

LEVELLING AND SMOOTHING COMPOUNDS:

Ensure that the subfloor has an effective damp proof membrane and the compound is dry, sound and well adhered to the base.

PLYWOOD OVERLAY (CLASS 3): Ensure the subfloor is rigid, flat, dry and adequately ventilated. The plywood must be conditioned to the appropriate moisture content for the environment and be a minimum 6mm thick. Screw fix at 100mm centres around the perimeter of the sheet and 150mm centres elsewhere.

Prime the following backgrounds with one neat, undiluted coat of PrimeMore CS. Allow the primer to dry before applying Kelmores Feather.

CALCIUM SULPHATE/ANHYDRITE SCREDS: All laitance and surface contaminants must be completely removed and the screed confirmed dry, no greater than 75% Relative Humidity (RH).

HEATED CALCIUM SULPHATE/ANHYDRITE SCREDS:

All laitance and surface contaminants must be completely removed. New heated screeds must be commissioned before commencing work. This can be started from 7 days after the screed has been installed and heat should be introduced slowly and in accordance with the recommendations of the screed manufacturer. Ensure the moisture content of the screed is no greater than 75% Relative Humidity (RH) and the underfloor heating has been switched off at least 48 hours prior to applying Kelmores Feather.

Mixing

Kelmores Feather should be mixed by volume at a ratio of approximately 3 parts powder to 1 part clean, cold water. The amount of water used in the initial mixing can be adjusted slightly to obtain the optimum consistency for the specific application. Pour the water into a clean bucket before gradually adding the powder. Mix thoroughly until a smooth, creamy consistency is achieved.

Application

Kelmores Feather can be used from a feather edge up to 3mm thick. Apply the mixed product to the floor before using a steel trowel to smooth and fill the background.

Setting

When Kelmores Feather has set sufficiently to be walked on, floor coverings can be installed. Depending on the application thickness and porosity of the background this can be after just 15 minutes.

Coverage

Coverage will vary dependent on the texture of the background and the application thickness of the product. As a guide, an 11kg bag of Kelmores Feather will provide the following approximate coverage:

Application Thickness	Scrape Coat	1mm	2mm	3mm
Approximate Coverage	Up to 50m ²	10m ²	5m ²	3.3m ²

NOTES: All cementitious flooring compounds should only be used when the temperature (air and background) is 5°C or above. If temperatures drop below 5°C then the chemical reaction required for cement to set is impeded, dramatically slowing the setting process. This will only return to normal when temperatures rise. Additionally, if the temperatures drop to below freezing before the compound has set, then the integrity and performance of the product will be compromised.

Where temperatures are in excess of 30°C, the set time of the product will be accelerated significantly, potentially making it difficult to use. When work must be undertaken in higher temperatures, every effort should be made to ensure the temperature of the air, background, water and products are kept as cool as possible.

CLEANING: All tools should be cleaned with water after use and before the product sets.

HEALTH AND SAFETY: For detailed information, please refer to and follow the advice stated on the SDS (Safety Data Sheet) which can be accessed on our website – www.kelmores.co.uk or alternatively by contacting Kelmores Ltd.

STORAGE AND SHELF LIFE: Kelmores Feather must be stored in unopened packaging, off the ground, and in cool, dry conditions. If stored in this way, the shelf life of this product is 12 months.

BS 8203: Kelmores Feather should be used in conjunction with work carried out under the British Code of Practice for the Installation of Resilient Floor Coverings.

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