

# TECHNICAL DATA SHEET

# Feather

23/02/26

An ultra-rapid drying patching and smoothing compound

## Key Features

- Effectively smooths floors prior to installing resilient floor coverings
- Extremely smooth, ultra-rapid drying formulation
- Highly polymer modified for exceptional flexibility
- Smooths surface imperfections on a wide range of backgrounds
- Seamlessly fills and smooths plywood joints and fixing points



## Technical Information



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 <sup>2</sup>	
Compressive strength	After 1 day	>8 N/mm <sup>2</sup>
	After 7 days	>12 N/mm <sup>2</sup>
	After 28 days	>16 N/mm <sup>2</sup>
Flexural strength	After 1 day	>4 N/mm <sup>2</sup>
	After 7 days	>5 N/mm <sup>2</sup>
	After 28 days	>6 N/mm <sup>2</sup>

## Areas of Use

Floors	Interior	Domestic and Commercial	Heated Screeds	Limited Movement/Vibration
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## 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 impair adhesion, such as dust, dirt, oil, grease, laitance, and curing agents. Timber bases must be rigid, stable and adequately ventilated. They should support both static and dynamic loads without deflection and be covered with an appropriate intermediate layer.

Suitable Floor Backgrounds					PRIMER REQUIRED
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 Feather.					

## Guidance notes on suitable floor backgrounds

**The following backgrounds do not require priming.**

### CEMENT:SAND SCREED

- Ensure the screed has an effective structural damp proof membrane and is dry ( $\leq 75\%$  RH).

### HEATED CEMENT:SAND SCREED

- New screeds must be commissioned from 3 weeks after screed installation and before work commences.
- Heat slowly at a maximum rate of 5°C per day until the maximum operating temperature is reached. Continue to run the underfloor heating until the screed is confirmed dry ( $\leq 75\%$  RH).
- For proprietary screeds, follow the manufacturer's recommendations for commissioning and preparation.
- The underfloor heating should be switched off 48 hours prior to commencing work.

### CONCRETE

- Ensure the concrete has an effective structural damp proof membrane and is dry ( $\leq 75\%$  RH).
- Power floated concrete must also be mechanically prepared to achieve a clean, sound, micro-textured, dust-free surface.

### EXISTING CERAMIC, PORCELAIN, AND NATURAL STONE TILES

- Must be in good condition, free from contaminants and well bonded to a base containing an effective structural damp proof membrane.
- Feather may only be applied where the selected resilient adhesive is suitable for non-absorbent backgrounds. Where an absorbent background is required, apply an appropriate Kelmor levelling and smoothing compound to a minimum thickness of 3mm.

### LEVELLING AND SMOOTHING COMPOUNDS

- Ensure the subfloor has an effective damp proof membrane and the compound is dry, sound and well bonded.

### PLYWOOD OVERLAY (CLASS 3)

- Plywood must be a minimum 6mm thick and conditioned to the appropriate moisture content for the environment.
- Fix using screw nails, ring shank nails, or screws every 100mm at the sheet's perimeter and 150mm elsewhere.

**Prime calcium sulphate/anhydrite screeds with one neat, undiluted coat of PrimeMore CS. Allow the primer to dry before applying Feather.**

### CALCIUM SULPHATE/ANHYDRITE SCREDS

- All laitance and surface contaminants must be completely removed.
- The screed must be confirmed dry ( $\leq 75\%$  RH).

### HEATED CALCIUM SULPHATE/ANHYDRITE SCREDS

- All laitance and surface contaminants must be completely removed.
- New heated screeds must be commissioned from 7 days after screed installation and before work commences.
- The screed should be heated slowly and in accordance with the recommendations of the screed manufacturer.
- After commissioning, continue to run the underfloor heating until the screed is confirmed dry ( $\leq 75\%$  RH).
- Switch off underfloor heating 48 hours prior to commencing work.

## Mixing

Mix by volume at a ratio of approximately 3 parts powder to 1 part clean, cold water. Pour the water into a clean bucket before gradually adding the powder. Mix thoroughly until a smooth, slump-free consistency is achieved.

## Application

Apply the mixed product to the floor before using a steel trowel to smooth and fill the background.

## Setting

When Feather is walkable, floor coverings can be installed. Depending on the application thickness and porosity of the background this can be from 15 minutes.

## Coverage

Coverage will vary dependent on the texture of the background and the application thickness of the product. The table below shows the approximate coverage of an 11kg bag of Feather when mixed at 3:1 ratio with water by volume.

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

### Notes:

- Cementitious products should only be used when both air and background temperatures are 5°C or higher. If the temperature falls below 5°C, the chemical reaction required for the product to set is hindered, dramatically slowing the curing process. Normal setting will only resume once temperatures rise. However, if temperatures drop below freezing before the product has fully set, the integrity and performance of the product will be compromised.
- After completing installations on backgrounds incorporating underfloor heating, the heating system should not be run for 10 days. Following this period, the floor temperature must be gradually raised to its optimal operating temperature, with an increase of no more than 2°C per day.

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

**Health and Safety:** For full details, please refer to the Safety Data Sheet, available at [www.kelmore.co.uk](http://www.kelmore.co.uk) or by contacting Kelmore Ltd.

**Storage and Shelf Life:** When stored in unopened packaging, off the ground, and in cool, dry conditions, this product has a shelf life of 12 months.

**BS & EN Standards:** Product should be used in accordance with the requirements of the relevant British and European Standards.

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EN 13813: CT-C16-F6