

TECHNICAL DATA SHEET

Kelmore Repair Mortar

01/05/25

Kelmore's Repair Mortar is a moisture tolerant, ultra-rapid setting cementitious mortar suitable for interior and exterior use. Designed for horizontal and vertical applications, it can be applied in thicknesses ranging from 2mm to 50mm without slumping. Its versatility makes it ideal for repairing, filling, and patching substrates, as well as forming ramps, falls, and coves. Thanks to its moisture tolerance, it is also suitable for use below damp proof membranes. Its ultra-rapid setting properties allows for tiling with porcelain, ceramic, and natural stone tiles after 60 minutes, with resilient floor coverings able to be installed after just 90 minutes.

Repair Mortar



Classification (EN 13813)		CT-C30-F6
Pack size		15kg
Water required per 15kg bag		Approximately 2.85 litres
Powder to water ratio (by volume)		Approximately 3½:1 (3½ parts powder to 1 part water)
Application temperature (air and background)		≥ 5°C
Application thickness		2mm to 50mm
@20°C	Working time	15 minutes
	Hard set	30 minutes
	Apply levelling and smoothing compounds after	45 minutes
	Tile after	60 minutes
	Fit resilient floor coverings after	90 minutes
Consumption per mm thickness		Approximately 1.59kg/m ²
After 28 days	Compressive strength	30 N/mm ²
	Flexural strength	6 N/mm ²

Areas of Use

Walls	Horizontal Applications	Interior	Domestic	Below Damp Proof Membranes
Floors	Vertical Applications	Exterior	Commercial	Heated Screeds

Suitable Backgrounds				PRIMER REQUIRED
A Cement:Sand Screed (inc. Heated)	A Concrete	A Cement: Sand Render	A Concrete Blockwork	None Required
B Pre-cast Concrete				PrimeMore Grip
A Where required, the porosity of the background can be regulated by dampening the surface with clean water prior to applying Kelmores Repair Mortar.		B Prime with one neat, undiluted coat of PrimeMore Grip. Allow the primer to dry before applying Kelmores Repair Mortar.		

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 backgrounds

The following backgrounds do not require priming. However, where required, the porosity of the background can be regulated by dampening the surface with clean water prior to applying Repair Mortar.

CEMENT:SAND SCREED

Kelmores Repair Mortar can be used on dry or damp cement:sand screeds providing no surface water is present.

Tile-Fixing (Porcelain & Ceramic):

Allow new screeds to dry for at least 3 weeks. Direct fixing of agglomerate and some natural stone tiles will require extended drying times.

For proprietary screeds, follow the manufacturer's recommendations for preparation and drying times.

Fitting Resilient Floor Coverings:

Ensure the screed has an effective structural DPM and is dry ($\leq 75\%$ RH). If a DPM is absent or ineffective, or residual construction moisture is present up to 98% RH, apply Kelmores DPM to the surface.

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. Hold this temperature for 3 days before allowing the screed to cool to room temperature. For proprietary screeds, follow the manufacturer's recommendations for commissioning and preparation.

Tile-Fixing (Porcelain, Ceramic, Natural Stone):

The heating system should be turned off, or in cold weather, turned on so that the screed is held at approximately 15°C before applying Repair Mortar.

Fitting Resilient Floor Coverings: 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.

CONCRETE

Tile-Fixing (Porcelain, Ceramic, Natural Stone):

Allow new concrete to cure before being subjected to continuous air drying in good conditions for at least 6 weeks. Power floated concrete should be mechanically prepared to achieve a clean, sound, micro-textured, dust-free surface.

Fitting Resilient Floor Coverings:

Ensure the concrete has an effective structural DPM and is dry ($\leq 75\%$ RH). If a DPM is absent or ineffective, or residual construction moisture is present up to 98% RH, apply Kelmores DPM to the surface. Power floated concrete should be mechanically prepared to achieve a clean, sound, micro-textured, dust-free surface and be confirmed dry ($\leq 75\%$ RH).

CEMENT:SAND RENDER

Tile-Fixing (Porcelain, Ceramic, Natural Stone):

Must be true and firmly bonded to the background. Prevent from rapid drying and allow to air dry for at least 2 weeks.

CONCRETE BLOCKWORK

Tile-Fixing (Porcelain, Ceramic, Natural Stone):

Must be true and be allowed to dry for at least 6 weeks before tiling.

Prime the following background with one neat, undiluted coat of PrimeMore Grip. Allow the primer to dry before applying Kelmores Repair Mortar.

PRE-CAST CONCRETE

Must be free from all contaminants, including mould oils and release agents.

Mixing

A 15kg bag of Kelmores Repair Mortar should be mixed with approximately 2.85 litres of clean, cold water. For smaller batches, use a powder-to-water ratio of 3½ : 1 by volume.

Add the water to a clean bucket, then gradually stir in the powder. Mix thoroughly until the consistency is smooth and slump-free.

Application

Using a steel trowel, apply the mixed mortar with sufficient pressure to ensure it keys into the background. The mortar can be left proud and trimmed when sufficiently firm, which, at 20°C, will take approximately 15 to 20 minutes. Once firm, the mortar can be finished with a wet trowel to further smooth and enhance the surface.

Setting

At 20°C, the mortar will start to firm from 15 minutes and will be set hard after 30 minutes. Porcelain, ceramic, and natural stone tiles can be fixed after 60 minutes, and resilient flooring can be fitted after 90 minutes. When applying a levelling and smoothing compound over repair mortar, wait 45 minutes before proceeding.

Coverage

Coverage will vary dependent on the application thickness of the product. As a guide, an 15kg bag of Kelmores Repair Mortar will provide the following approximate coverages:

Application Thickness	2mm	5mm	10mm	25mm	50mm
Approximate Coverage	4.7m ²	1.8m ²	0.9m ²	0.38m ²	0.19m ²

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.
- In conditions above 30°C, the product's setting time will be significantly accelerated, which could make it difficult to work with. When use in higher temperatures is unavoidable, steps must be taken to keep the air, background, water, and products as cool as possible.

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

BS 8203 & BS 5385 Kelmores Repair Mortar should be used in conjunction with work carried out under the British Codes of Practice for the Installation of Resilient Floor Coverings, or for Wall and Floor Tiling.

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