

Kelmore Repair Mortar

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Kelmore Repair Mortar is a moisture tolerant, ultra-rapid setting and drying mortar. Suitable for horizontal and vertical applications and able to be applied from 2mm to 50mm, this non-slumping mortar can be used for interior and exterior applications. Kelmore Repair Mortar can be used to repair, fill and patch backgrounds, as well as to form ramps, falls, and coves, and being moisture tolerant, it can be used below damp proof membranes. This ultra-rapid drying product can be covered with a levelling and smoothing compound after 45 minutes, tiled with porcelain, ceramic, and natural stone tiles after 60 minutes and resilient floor coverings can be fitted after 90 minutes.

Repair Mortar



Classification (EN 13813)		CT-C30-F6
Water required per 11kg bag		Approximately 2.1 litres
Pack Size		11kg
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
*Cement:Sand Screed (inc. Heated)	*Concrete	*Cement: Sand Render	*Concrete Blockwork	None Required
B Pre-cast Concrete				PrimeMore Grip
*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 floor 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 Kelmores Repair Mortar.

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

When using Kelmores Repair Mortar prior to fitting resilient floor coverings, screeds must have an effective structural damp proof membrane and be confirmed dry, no greater than 75% Relative Humidity (RH). If the screed does not contain an effective structural damp proof membrane, or residual construction moisture is present up to 98%RH, Kelmores DPM must be applied to the surface. Kelmores Repair Mortar is moisture tolerant and can be used before applying the DPM.

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.

When fitting resilient floor coverings, ensure the moisture content of the screed is no greater than 75% Relative Humidity (RH).

Underfloor heating must be switched off 48 hours prior to applying Kelmores Repair Mortar.

CONCRETE: Kelmores Repair Mortar can be used on dry or damp concrete providing no surface water is present.

When using Kelmores Repair Mortar prior to fitting moisture sensitive floor coverings, the concrete must have an effective structural damp proof membrane and be confirmed dry, no greater than 75% Relative Humidity (RH). If the concrete does not contain an effective structural damp proof membrane, or residual construction moisture is present up to 98% RH, Kelmores DPM must be applied to the surface. Kelmores Repair Mortar is moisture tolerant and can be used before applying the DPM.

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

***CEMENT:SAND RENDER:** The render must be sufficiently dry and firmly bonded to the background.

***CONCRETE BLOCKWORK:** Blockwork must be true and sufficiently dry.

Prime the following backgrounds 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

An 11kg bag of Kelmores Repair Mortar should be mixed with approximately 2.1 litres of clean, cold water. If mixing smaller batches, the mixing ratio by volume is approximately 3½ parts powder to 1 part water. Pour the water into a clean bucket before gradually adding the powder. Mix thoroughly until a smooth, slump-free consistency is achieved.

Application

Kelmores Repair Mortar can be applied from 2mm to 50mm. Apply the mortar to the wall or floor using a steel trowel ensuring sufficient pressure is applied so the mortar keys into the background. Where required, the mortar can be left proud, and on firming, the excess can be trimmed off (mortar will firm after approximately 15 to 20 minutes at 20°C). Once firm, the mortar can be finished with a wet trowel to smooth and enhance the surface finish if required.

Setting

At 20°C, Kelmores Repair Mortar will begin its initial set from 15 minutes and will be set hard after 30 minutes. If subsequently applying a levelling and smoothing compound, this can be applied after 45 minutes. Porcelain, ceramic, and natural stone tiles can be fixed after 60 minutes and resilient flooring can be fitted after 90 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 Repair Mortar will provide the following approximate coverage:

Application Thickness	2mm	5mm	10mm	25mm	50mm
Approximate Coverage	3.46m ²	1.38m ²	0.69m ²	0.28m ²	0.14m ²

NOTES: All cementitious products 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 Repair Mortar 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 & 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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