

TECHNICAL DATA SHEET

LevelMore Rapid 30

01/01/24

Kelmore's LevelMore Rapid 30 is an ultra-rapid setting, flexible, levelling and smoothing compound which can be applied from 2mm to 30mm in a single application. Suitable for use on a wide range of subfloors, this compound's ultra-rapid setting and drying properties makes it an excellent choice for time sensitive projects. Providing superb flowing capabilities and dimensional stability, this protein free product sets with an outstanding surface finish and can be walked on after just 30 minutes. Resilient floor coverings can be fitted after 90 minutes and porcelain, ceramic, and natural stone tiles can be fixed after just 45 minutes. LevelMore Rapid 30 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 flooring compounds, this results in a significant reduction in CO₂ emissions.



LevelMore Rapid 30

Classification (EN 13813)		CT-C25-F7
Pack Size		20kg
Water required per 20kg bag		4.5 to 5.0 litres
Application Temperature (air and background)		≥ 5°C
Application Thickness	Minimum Maximum	2mm 30mm
@20°C	Working time Walk on Tile after Fit resilient floor coverings after	15 minutes 30 minutes 45 minutes 90 minutes
Consumption per mm thickness		Approximately 1.58kg /m ²
After 28 Days	Compressive Strength Flexural Strength	25 N/mm ² 7 N/mm ²

Areas of Use

Floors	Interior	Domestic	Commercial	Water Piped Underfloor Heating	Limited Movement/ Vibration
				Electric Underfloor Heating	

Suitable Floor Backgrounds				PRIMER REQUIRED
A Cement:Sand Screed (inc. Heated)	A Concrete	A Plywood Overlay (Class 3)	A Tile Backer Boards	PrimeMore Universal
B Asphalt (Flooring Grade)	B Epoxy DPM	B Existing Ceramic, Porcelain, and Natural Stone Tiles		PrimeMore Grip
C Calcium Sulphate/Anhydrite Screed (inc. Heated)				PrimeMore CS
A Prime with one coat of PrimeMore Universal diluted 1:3 with water. Depending on the porosity of the background, additional coats may be required.		B Prime with one neat, undiluted coat of PrimeMore Grip.	C Prime with one neat, undiluted coat of PrimeMore CS.	

The primer must be allowed to dry before applying LevelMore Rapid 30.

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. Timber bases must be adequately ventilated and able to carry the additional static and dynamic load without deflection.

Guidance notes on suitable floor backgrounds

Prime the following backgrounds with one coat of PrimeMore Universal diluted 1:3 by volume with clean water (1 part PrimeMore Universal to 3 parts clean water).

***Depending on the porosity of the background, additional diluted coats of PrimeMore Universal may be required.**

All priming coats must be allowed to dry before applying additional coats and before applying the flooring compound.

***CEMENT:SAND SCREED:** When levelling or smoothing prior to tiling with porcelain, ceramic or natural stone tiles, newly installed screeds should be allowed to dry for a minimum of 3 weeks. For preparation and drying times of proprietary cementitious screeds, follow the guidance of the manufacturer.

When levelling or smoothing 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. LevelMore Flex&Fibre, LevelMore Pro and LevelMore Absolute 30 are moisture tolerant and can be used to pre-smooth screeds before applying the DPM.

***HEATED CEMENT:SAND SCREED:** New heated screeds must be commissioned from 3 weeks after screed installation and before work commences. 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 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) before levelling or smoothing.

Underfloor heating must be switched off 48 hours prior to levelling or smoothing.

***CONCRETE:** When levelling or smoothing prior to tiling with porcelain, ceramic or natural stone tiles, new concrete must be given time to cure before being allowed to continuously air dry in good conditions for a minimum of 6 weeks.

When levelling or smoothing prior to fitting resilient 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

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residual construction moisture is present up to 98% RH, Kelmores DPM must be applied to the surface. LevelMore Flex&Fibre, LevelMore Pro and LevelMore Absolute 30 are moisture tolerant and can be used to pre-smooth concrete before applying the DPM.

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

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. When levelling or smoothing prior to fitting resilient floor coverings, the plywood overlay must be a minimum 6mm thick and screw fixed at 100mm centres around the perimeter of the sheet and 150mm centres elsewhere. When levelling or smoothing prior to tiling with porcelain, ceramic or natural stone tiles, the plywood overlay must be a minimum 15mm thick and screw fixed at a maximum 300mm centres.

***TILE BACKER BOARDS:** Ensure the boards are installed as instructed by the manufacturer and that they are securely fixed to suitable, rigid, prepared bases. Where the boards have been installed on solid bases using tile adhesive, ensure the adhesive has fully set before applying the product. Please note that some proprietary boards can be susceptible to point loading and will require the compound to be applied at a minimum thickness before installing some floor coverings.

Prime the following backgrounds with one neat, undiluted coat of PrimeMore Grip. Allow the primer to dry before applying the flooring compound.

FLOORING GRADE ASPHALT: Must be hard, sound and firmly adhered. When fitting resilient flooring, LevelMore Rapid 30 should be applied with a minimum thickness of 3mm to provide an absorbent base for the application of adhesives.

EPOXY DPM: Must be a flooring grade that is compatible with cementitious products. Ensure it is hard, sound and firmly adhered. When fitting resilient flooring, LevelMore Rapid 30 should be applied with a minimum thickness of 3mm to provide an absorbent base for the application of adhesives.

EXISTING CERAMIC, PORCELAIN, AND NATURAL STONE TILES: Must be in good condition, free from contaminants and well bonded. Ensure the existing structure can take the additional weight.

When fitting resilient flooring, LevelMore Rapid 30 should be applied with a minimum thickness of 3mm to provide an absorbent base for the application of adhesives. If the existing tiles are fixed to a floor that does not contain an effective structural damp proof membrane, Kelmores DPM must be applied either directly to the surface of the prepared tiles or to a pre-smoothing layer of LevelMore Flex&Fibre, LevelMore Pro or LevelMore Absolute 30.

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

CALCIUM SULPHATE/ANHYDRITE SCREEDS: All laitance and surface contaminants must be completely removed. The screed must be confirmed adequately dry, no greater than 85% Relative Humidity (RH) when levelling or smoothing prior to tiling with porcelain, ceramic or natural stone tiles, and no greater than 75% RH when levelling or smoothing prior to fitting resilient floor coverings.

HEATED CALCIUM SULPHATE/ANHYDRITE SCREEDS: 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. When levelling or smoothing prior to tiling with porcelain, ceramic or natural stone tiles, ensure the moisture content of the screed is no greater than 85% Relative Humidity (RH), and no greater than 75% RH when levelling or smoothing prior to fitting resilient floor coverings.

Underfloor heating must be switched off 48 hours prior to levelling or smoothing.

SPECIFIC PRODUCT INFORMATION

- LevelMore Rapid 30 can be used to encapsulate electric underfloor heating cables. Before the cables or mats are adhered to the floor, ensure that the background has been prepared. Where resilient floor coverings are to be fitted, LevelMore Rapid 30 must be applied at a thickness as recommended by the manufacturer to ensure the floor covering does not suffer heat damage.
- 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.
- Where possible, LevelMore Rapid 30 should be applied at the desired thickness in a single application. If additional coats are required, allow the previous coat to completely dry before priming with PrimeMore Universal diluted 1:3 by volume with clean water. Additional coats must not exceed the thickness of the previous coat.
- LevelMore Rapid 30 is protein free, making it suitable for use in biologically sensitive areas.

Mixing

A 20kg bag of LevelMore Rapid 30 must be mixed with 4.5 to 5.0 litres of clean, cold water. Within this range, the performance of the product is maintained whilst still offering the flexibility to adjust the water to obtain a desired consistency and flow. **Do not exceed 5 litres of water per 20kg of LevelMore Rapid 30.**

Pour the measured water into a clean bucket. Gradually add the powder whilst mixing thoroughly with an electric paddle mixer until a smooth, lump-free consistency is achieved. The compound is ready for use immediately after mixing.

Application

LevelMore Rapid 30 can be applied at a thickness of 2mm to 30mm in a single application. Pour the mixed compound onto the prepared floor before using a trowel or rake to regulate the thickness and guide the product into the desired areas. Whilst the product is still wet, the use of a *spiked roller can further enhance the surface finish by removing any trapped air.

*The use of a spiked roller is only recommended when the product has been applied at a thickness that will allow the roller to freely roll through the compound.

Drying

Drying times will vary dependent on the porosity of the background, ambient temperature and humidity. When tested to the industry standard temperature of 20°C, LevelMore Rapid 30 can be walked on after 30 minutes. Resilient floor coverings can be fitted after 90 minutes and porcelain, ceramic, and natural stone tiles can be fixed after 45 minutes. Please be aware that higher temperatures and low humidity will shorten the drying time and lower temperatures and high humidity will extend the drying time.

Coverage

Coverage will vary dependent on the texture of the background and the application thickness of the product. As a guide, a 20kg bag of LevelMore Rapid 30 mixed with 5 litres of water will provide the following approximate coverage:

Application Thickness	2mm	3mm	5mm	10mm	20mm	30mm
Approximate Coverage	6.3m ²	4.2m ²	2.5m ²	1.26m ²	0.63m ²	0.42m 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: LevelMore Rapid 30 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: LevelMore Rapid 30 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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