TECHNICAL DATA SHEET

LevelMore Flex&Fibre

03/02/25

Kelmore's LevelMore Flex&Fibre is a flexible, fibre reinforced, rapid setting levelling and smoothing compound that can be applied from 2mm to 50mm in a single application. Ensuring excellent workability and moisture tolerance, it is suitable for use on a wide range of subfloors, including applications below damp proof membranes. Boasting superb flowing capabilities and dimensional stability, this protein-free product sets with an outstanding surface finish and is ready for foot traffic after just 90 minutes. Resilient floor coverings can be fitted after 3 hours, and porcelain, ceramic, and natural stone tiles can be fixed after 2 hours. Demonstrating its true versatility, it is suitable for both interior and exterior use and can also be installed as a durable wearing surface. LevelMore Flex&Fibre 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 Flex&Fibre

Classificatio	n <i>(EN 13813)</i>	CT-C25-F7		
Pack size		20kg		
Water requir	Water required per 20kg bag			
Application (air and bac	temperature kground)	≥ 5°C		
Application thickness	Minimum Maximum When bulked out	2mm 50mm 75mm		
@20°C	Working time Walk on Tile after Fit resilient floor coverings after	30 minutes 90 minutes 2 hours 3 hours		
Consumptio	Approximately 1.55kg /m²			
After 28 days	Compressive strength Flexural strength	25 N/mm² 7 N/mm²		

Areas of Use								
Floors	Interior	Domestic	Below Damp	Water Piped Underfloor Heating	Limited Movement/			
	Exterior	Commercial	Proof Membranes	Electric Underfloor Heating	Vibration			





LevelMore Flex&Fibre

Suitable Floor Backgrounds PRIMER REQUIRED									PRIMER REQUIRED	
A	A Cement:Sand Screed (inc. Heated)		A Concrete A Plyv (Clo		wood Overlay ass 3)		Tile Backer Boards		Prime <i>More</i> Universal	
В	Asphalt (Flooring Grade)	В	Epoxy DPM	В		ing Ceramic, elain, and Natural e Tiles		Prime <i>More</i> Grip		
© Calcium Sulphate/Anhydrite Screed (inc. Heated) PrimeMore C								Prime <i>More</i> CS		
A Prime with one coat of Prime More Universal diluted 1:3 with water. Depending on the porosity of the background, additional coats may be required.				neat, undiluted u		un	rime with one neat, ndiluted coat of rime <i>More</i> CS.			
The primer must be allowed to dry before applying Level <i>More</i> Flex&Fibre.										

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 rigid, stable and adequately ventilated. They should support both static and dynamic loads without deflection and be covered with an appropriate intermediate layer.

Guidance notes on suitable floor backgrounds

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

Depending on the porosity of the background, additional diluted coats of Prime*More* 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

Tile-Fixing (Porcelain & Ceramic): Allow new screeds to dry for at least 3 weeks. 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 (≤75% RH). If a DPM is absent or ineffective, or residual construction moisture is present up to 98% RH, apply Kelmore 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.

Fitting Resilient Floor Coverings: After commissioning, continue to run the underfloor heating until the screed is confirmed dry (\$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 (≤75% RH). If a DPM is absent or ineffective, or residual construction moisture is present up to 98% RH, apply Kelmore 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 (≤75% RH).

PLYWOOD OVERLAY (CLASS 3)

Fitting Resilient Floor Coverings: 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.

TILE BACKER BOARDS

Must be installed as instructed by the manufacturer and be securely fixed to rigid, suitable, prepared

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LevelMore Flex&Fibre

bases. Where boards have been installed on solid bases using tile adhesive, ensure the adhesive has fully set before commencing work. Please note, to prevent point loading, some proprietary boards will require a minimum compound thickness before installing certain floor coverings.

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

FLOORING GRADE ASPHALT

Must be hard, sound and firmly adhered.

EPOXY DPM

Must be a flooring grade that is compatible with cementitious products. Ensure it is hard, sound and firmly adhered.

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.

Fitting Resilient Floor Coverings: If the existing tiles are fixed to a floor that does not contain an effective structural damp proof membrane, Kelmore DPM must be applied either directly to the surface of the prepared tiles or to a pre-smoothing layer of Level*More* Flex&Fibre.

METAL (STEEL)

Must be rigid, corrosion-free and clean.

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

CALCIUM SULPHATE/ANHYDRITE SCREEDS

All laitance and surface contaminants must be completely removed.

Tile-Fixing (Porcelain, Ceramic, Natural Stone): The screed must be confirmed adequately dry (\$85% RH).

Resilient Floor Coverings: The screed must be confirmed dry (≤75% RH).

HEATED CALCIUM SULPHATE/ANHYDRITE SCREEDS

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.

Tile-Fixing (Porcelain, Ceramic, Natural Stone): The screed must be confirmed adequately dry (\$85% RH).

Resilient Floor Coverings: After commissioning, continue to run the underfloor heating until the screed is confirmed dry (<75% RH). Switch off underfloor heating 48 hours prior to commencing work.

ADDITIONAL INFORMATION

Moisture Tolerance: Level*More* Flex&Fibre is suitable for use on damp subfloors, provided no surface water is present. It can also be used below damp proof membranes, and when used to pre-smooth textured subfloors, it enhances the coverage of Kelmore DPM.

Underfloor Heating: Level*More* Flex&Fibre can be used to encapsulate electric underfloor heating cables which have been adhered to prepared floors. For resilient floor coverings, apply Level*More* Flex&Fibre at the thickness 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.

Impervious Backgrounds: To provide an absorbent base for the application of adhesives, when fitting resilient floor coverings, Level*More* Flex&Fibre must be applied at a minimum thickness of 3mm.

Timber Floors: Level*More* Flex&Fibre can be used to smooth or level uneven timber floors prior to overlaying with plywood or tile backer boards. The timber floor must be rigid, adequately ventilated and free of all contaminants that could inhibit adhesion and be primed with Prime*More* Grip. Allow the primer to dry before applying the compound, and the compound must be allowed at least 3 hours to fully dry before fitting the sheets or boards.

Multiple Layers: Where possible, Level*More* Flex&Fibre should be applied at the desired thickness in a single application. If additional layers are needed, allow the previous layer to completely dry before priming with diluted Prime*More* Universal. Additional layers must not exceed the thickness of the previous layer.

Wearing Coat: When used as a wearing coat in domestic environments, Level*More* Flex&Fibre must be applied at a minimum thickness of 6mm. For use as a wearing coat in commercial environments, please contact Kelmore's technical department for advice.

External Use: Whilst still allowing the product to air cure, protect from rainfall and frost for at least 24 hours.

Protein-Free: LevelMore Flex&Fibre is suitable for use in biologically sensitive areas.



LevelMore Flex&Fibre

Mixing

A 20kg bag of Level*More* Flex&Fibre 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 Level***More* **Flex&Fibre.**

Pour the 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

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. If the product has been applied at a thickness that allows free movement of a spiked roller, using it whilst the product is still wet can further enhance the surface finish by removing any trapped air.

Pumped Application

Mix according to the pump manufacturer's recommendations ensuring the correct water ratio is maintained. The mixed product should be smooth and fluid and have no surface separation or bleed. Flow checks should be performed regularly during the pumping process.

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, Level*More* Flex&Fibre can be walked on after 90 minutes. Resilient floor coverings can be fitted after 3 hours, and porcelain, ceramic, and natural stone tiles can be fixed after 2 hours. 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.

Bulking Out

LevelMore Flex&Fibre can be applied at a thickness of 2mm to 50mm in a single application. Where depths from 50mm to 75mm are required, LevelMore Flex&Fibre must be mixed with sharp sand at a ratio of 2:1 by weight (2 parts LevelMore Flex&Fibre to 1 part sharp sand). When bulking out, a 20kg bag of LevelMore Flex&Fibre should be mixed as normal with 5 litres of clean, cold water. After mixing, add 10kg of sharp sand and remix. The product is ready for use when the sand has been thoroughly combined into the compound.

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 Level*More* Flex&Fibre mixed with 5 litres of water will provide the following approximate coverage:

Application Thickness	2mm	3mm	5mm	10mm	20mm	50mm
Approximate Coverage	6.45m ²	4.3m ²	2.58m²	1.29m ²	0.64m²	0.25m 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.

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.kelmore.co.uk or alternatively 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 8203 & BS 5385 Level*More* Flex&Fibre 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.

All the information supplied by Kelmore Ltd is offered in good faith and is derived from the company's combined knowledge, experience and testing. Without prior notice, due to on-going research and development, the information we offer can be updated at any time. Kelmore's products are developed, tested and manufactured to consistently high standards, however, we accept no liability for any loss or damage which may arise from factors outside of our control, such as site conditions and/or the execution of the work.



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