

TECHNICAL DATA SHEET

One Coat DPM *Fast*

03/02/25

Kelmore's One Coat DPM *Fast* is a 2-part, epoxy damp proof membrane and residual moisture suppressant. This solvent free product cures in approximately 4½ hours, creating a surface membrane able to withstand moisture in cementitious screeds and concrete up to 98% RH and up to 90% RH in calcium sulphate screeds. By regulating the application thickness, the product can either be used to create a damp proof membrane able to combat rising damp, or to suppress residual moisture. One Coat DPM *Fast* can also be used on heated screeds and once cured has excellent resistance to not only water, but grease, oil, aqueous salt solution and dilute mineral and organic acids.

One Coat DPM *Fast*



Pack sizes	5kg 10kg	
Colour	Blue	
Application temperature (air and background)	≥ 10°C	
@20°C	Working time	20 minutes
	Cure time	Approximately 4½ hours
Approximate coverage	A2 trowel	5kg = 12.5m ² 10kg = 25m ²
	B1 trowel	5kg = 10.5m ² 10kg = 21m ²
	B2 trowel	5kg = 9m ² 10kg = 18m ²

Areas of Use

Floors	Interior	Exterior	Domestic	Commercial	Heated Screeds
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Suitable Backgrounds		
Cement:Sand Screed (inc. Heated)	Calcium Sulphate/Anhydrite Screed (inc. Heated)	Kelmores Moisture Tolerant Levelling and Smoothing Compounds (LevelMore Absolute 30, Pro, and Flex&Fibre)
Concrete	Existing Ceramic, Porcelain, and Natural Stone Tiles	

BACKGROUND AND SURFACE PREPARATION

Ensure the background has sufficient surface strength and is free of any standing water. All surfaces must be clean, sound and free from contaminants that could inhibit adhesion, such as dust, dirt, oil, grease, laitance, and curing agents. Any existing adhesive residues and levelling and smoothing compounds that are not moisture tolerant will need to be completely removed. Concrete or cementitious screeds that have a rough textured or uneven surface should be pre-smoothed with a moisture tolerant Kelmores levelling and smoothing compound.

Guidance notes on suitable floor backgrounds

CEMENT:SAND SCREED: The moisture content of the screed must be confirmed to be no greater than 98% Relative Humidity (RH).

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.* Underfloor heating must be switched off 48 hours prior to applying Kelmores One Coat DPM Fast.

CONCRETE: The moisture content of the concrete must be confirmed to be no greater than 98% Relative Humidity (RH). Power floated concrete should be mechanically prepared by suitable means to provide a clean, sound, micro-textured, dust free surface.

CALCIUM SULPHATE/ANHYDRITE SCREED: All laitance and surface contaminants must be completely removed. The moisture content of the screed must be confirmed to be no greater than 90% Relative Humidity (RH).

HEATED CALCIUM SULPHATE/ANHYDRITE SCREED: 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. The moisture content of the screed must be confirmed to be no greater than 90% Relative Humidity (RH). Underfloor heating must be switched off at least 48 hours prior to applying Kelmores One Coat DPM Fast.

EXISTING CERAMIC, PORCELAIN, AND NATURAL STONE TILES: Must be in good condition, free of any contaminants and well bonded to a solid base.

KELMORE'S MOISTURE TOLERANT LEVELLING AND SMOOTHING COMPOUNDS: LevelMore Absolute 30, LevelMore Pro and LevelMore Flex&Fibre are all moisture tolerant and can be used to pre-smooth subfloors prior to applying Kelmores One Coat DPM Fast.

Mixing

One Coat DPM Fast is a 2-part product consisting of an epoxy resin (Part A) and a liquid hardener (Part B). These components come in separate tins that are attached to each other. Both components are pre-measured and must be mixed together in their entirety at the specified ratio.

To mix, pour the entire contents of the hardener tin (Part B) into the resin tin (Part A). Use a low-speed paddle mixer to thoroughly blend the components until the mixture is uniform and streak-free. To ensure all the hardener is used and to make the tin safe for disposal, coat the inside of the hardener tin with some of the mixed product before scraping it back into the resin tin and mixing one final time.

One Coat DPM Fast is ready for use immediately after mixing. Note that mixing the two components creates an exothermic reaction, which generates heat. To optimize working time, the mixed product should be removed from the tin as soon as possible. Leaving the mixture in the tin will increase heat retention and shorten the working time.

Application

To achieve the correct application thickness, apply One Coat DPM Fast to the surface using an appropriately sized V-notched trowel (refer to the table). Hold the trowel at an angle of approximately 60°. As you work, flatten and smooth the wet trowel ridges with a short-pile paint roller that has been pre-coated with mixed One Coat DPM Fast. The final coating should be continuous, even, and free of pinholes.

Substrate	Use where:	Minimum Application Thickness	Trowel Required
Cementitious Screeds and Concrete	Residual moisture is present up to 87% RH	250 microns	A2
	Residual moisture is present up to 98% RH	300 microns	B1
	A DPM needs creating	350 microns	B2
Calcium Sulphate/ Anhydrite	Residual moisture is present up to 90% RH	350 microns	B2

Drying

Drying times can vary based on the background's porosity, the ambient temperature and humidity. At 20°C, One Coat DPM Fast will be hard, dry and tack-free within 4½ hours. At this point, PrimeMore Grip can be applied to the surface ready to receive a Kelmores levelling and smoothing compound or tile adhesive. If using LevelMore Absolute 30 or LevelMore Pro within 24 hours of One Coat DPM Fast being applied, priming is not required.

Be aware that higher temperatures and low humidity will shorten drying times, while lower temperatures and high humidity will extend them.

If the dried surface of the DPM is not glossy or has pinholes, it indicates the product was absorbed too quickly into the background. In such cases, a second coat of One Coat DPM Fast will be necessary.

Coverage

Coverage will vary depending on the texture of the background and the application thickness of the product. As a guide, One Coat DPM Fast provides the following approximate coverage when applied to smooth surfaces with the specified trowel sizes:

Pack Size	A2 Trowel	B1 Trowel	B2 Trowel
5kg	12.5m ²	10.5m ²	9m ²
10kg	25m ²	21m ²	18m ²

NOTES:

- One Coat DPM Fast should only be applied when both the air and background temperatures are 10°C or higher. Use when temperatures are in excess of 30°C should be avoided as the set time of the product will be accelerated significantly, making it extremely difficult to use.
- Any joints or cracks within the floor where movement is anticipated should not be covered with One Coat DPM Fast. However, One Coat DPM Fast mixed with clean, dry sand may be used to fill non-moving joints and cracks. These areas must be allowed to fully cure before applying the damp proof membrane.

CLEANING All tools should be cleaned immediately after use and before the product cures.

HEALTH AND SAFETY One Coat DPM Fast is classified as an irritant and may cause sensitisation on repeated skin contact. Wear appropriate PPE when using this product. 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 temperatures between 5°C and 25°C, this product has a shelf life of 24 months.

BS 8203 & BS 5385 One Coat DPM Fast 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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