

TECHNICAL DATA SHEET

One Coat DPM Trade

19/08/25

One Coat DPM Trade is a 2-part epoxy damp proof membrane and residual moisture suppressant. This solvent-free product cures in approximately 6 hours, forming a surface membrane capable of withstanding moisture levels of up to 98% RH in cementitious subfloors, and 90% RH in calcium sulphate screeds. By adjusting the application thickness, it can either be used as a damp proof membrane, able to combat rising damp, or to suppress residual moisture. One Coat DPM Trade is also suitable for use over heated screeds and, once cured, offers excellent resistance to water, grease, oil, aqueous salt solution, and dilute mineral and organic acids.



Technical Information

Pack size		25kg
Colour		Black
Application temperature (air and background)		≥ 10°C
@20°C	Working time	20 minutes
	Cure time	Approximately 6 hours
Approximate coverage	A2 trowel	60m²
	B1 trowel	50m²
	B2 trowel	42m²

Areas of Use

Floors	Interior and Exterior	Domestic and Commercial
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BACKGROUND AND SURFACE PREPARATION

Ensure the background has sufficient surface strength and is free from standing water. All surfaces must be clean, sound and free from contaminants that could impair adhesion, such as dust, dirt, oil, grease, laitance, and curing agents. Adhesive residues and levelling and smoothing compounds that are not moisture tolerant must be completely removed. Rough or uneven concrete and cementitious screeds should be pre-smoothed using a moisture tolerant Kelmores levelling and smoothing compound.

Suitable Backgrounds

Cement:Sand Screed (inc. Heated)	Calcium Sulphate/Anhydrite Screed (inc. Heated)	Kelmores's Moisture Tolerant Levelling and Smoothing Compounds (LevelMore Absolute 30, Pro, and Flex&Fibre)
Concrete	Existing Ceramic, Porcelain, and Natural Stone Tiles	

Guidance notes on suitable floor backgrounds

CEMENT:SAND SCREED

The moisture content must be no greater than 98% RH.

HEATED CEMENT:SAND SCREED

New heated 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.

Switch off underfloor heating 48 hours prior to commencing work.

CONCRETE

The moisture content must be no greater than 98% RH. Power floated concrete should be mechanically prepared by suitable means to achieve a clean, sound, micro-textured, dust-free surface.

CALCIUM SULPHATE/ANHYDRITE SCREED

All laitance and surface contaminants must be completely removed. The moisture content must be no greater than 90% RH.

HEATED CALCIUM SULPHATE/ANHYDRITE SCREED

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. The moisture content must not be greater than 90% RH.

Switch off underfloor heating 48 hours prior to commencing work.

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 Trade.

Mixing

One Coat DPM Trade is a 2-part product consisting of an epoxy resin (Part A) and a liquid hardener (Part B). Both components are pre-measured and must be mixed together in their entirety.

Pour all the hardener (Part B) into the resin tin (Part A) and mix thoroughly using a low-speed paddle mixer until the components are completely combined and the mixture is streak-free and uniform in colour. The product is ready for use immediately after mixing. To optimise working time, the mixed product should be poured onto the subfloor as soon as possible. Due to the product's chemical reaction, leaving it in the tin will increase heat retention and shorten working time.

Application

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

Substrate	Use When	Minimum Application Thickness	Trowel Required
Cementitious Screeds and Concrete	Residual moisture is no greater than 87% RH	250 microns	A2
	Residual moisture is 88% RH to 98% RH	300 microns	B1
	A full DPM is required	350 microns	B2
Calcium Sulphate/ Anhydrite Screeds	Residual moisture is no greater than 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 Trade will be hard, dry and tack-free after 6 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 Trade being applied, priming is not required.

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

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

Coverage

Coverage will vary depending on the texture of the background and the application thickness of the product. The right-hand table shows the approximate coverage of One Coat DPM Trade when applied to smooth surfaces.

Pack Size	A2 Trowel	B1 Trowel	B2 Trowel
25kg	60m ²	50m ²	42m ²

NOTES:

- One Coat DPM Trade 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.
- Movement joints must not be bridged with One Coat DPM Trade. Use a flexible, impervious jointing system to ensure these joints carry through to the floor finish.
- One Coat DPM Trade mixed with clean, dry sand can be used to fill static 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 Trade is classified, and appropriate PPE must be worn when using this product. For full details, please refer to the safety data sheets for both components, available at www.kelmores.co.uk or 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 Trade 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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