TECHNICAL DATA SHEET

One Coat DPM *Trade*

23/03/26

A 2-part epoxy damp proof membrane

Key Features

- Effectively combats residual construction moisture and rising damp
- Suitable where a structural DPM is absent or ineffective
- Accommodates moisture in cementitious screeds up to 98% RH
- Accommodates moisture in calcium sulphate/anhydrite screeds up to 90% RH
- Suitable for use on heated screeds
- Solvent-free

Technical Information

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

Areas of Use

Floors	Interior and Exterior	Domestic and Commercial	Heated Screeds

Kelmore Ltd, The Dell, Berry Way, Chorley, PR7 6RA
Tel: **01257 830511** Email: **technical@kelmore.co.uk**

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 impair 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 Kelmore levelling and smoothing compound.

Suitable Floor Backgrounds

Cementitious Screeds (inc. Heated)	Concrete	Calcium Sulphate/Anhydrite Screed (inc. Heated)	Existing Ceramic, Porcelain, and Natural Stone Tiles

Guidance Notes for Suitable Subfloors

CEMENTITIOUS SCREEDS

- Ensure the moisture content is no greater than 98% RH.

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 5ºC 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

- Ensure the moisture content is 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 screed must be confirmed adequately dry (≤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 screed must be confirmed adequately dry (≤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 from contaminants and well bonded to a solid base.

KELMORE'S MOISTURE TOLERANT LEVELLING AND SMOOTHING COMPOUNDS

- Level*More* Absolute 30, Level*More* Pro and Level*More* Flex&Fibre are all moisture tolerant and can be used to pre-smooth cementitious screeds and concrete prior to applying 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 60º. As you work, flatten and smooth the wet trowel ridges using a short-pile paint roller that has been pre-coated with 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 88-98% 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 may vary depending on the background porosity, ambient temperature, and humidity.

At 20°C, One Coat DPM *Trade* will be hard, dry and tack-free after 6 hours. At this point, Prime*More* Grip can be applied to the surface ready to receive a Kelmore levelling and smoothing compound or tile adhesive. If using Level*More*Absolute 30 or Level*More* Pro within 24 hours of One Coat DPM *Trade* being applied, priming is not required.

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 may vary depending on the background texture and the application thickness of the product. Approximate coverage per pack size is shown in the table below.

Pack Size	A2 Trowel	B1 Trowel	B2 Trowel
25kg	up to 60m^2	up to 50m^2	up to 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.
- For packaging to be disposed of as non-hazardous waste, no residues of the individual components (Part A or Part B) must remain. Any residual material must be fully mixed and cured. Packaging containing uncured components must be disposed of as hazardous waste.
- 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.kelmore.co.uk or by contacting Kelmore 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 & EN Standards: One Coat DPM *Trade* should be used in accordance with the requirements of the relevant British and European Standards.

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.