

weberfloor DPM Pro

Two-component epoxy based damp proof membrane capable of one coat application

- Suppresses residual construction moisture up to 98% RH
- Capable of one coat application
- Allows faster application of final floor finishes

About this product

weberfloor DPM Pro is a two-component epoxy based damp proof membrane that is capable of being applied in one coat, dependent upon the condition of the substrate and quality of workmanship to ensure full coverage is achieved at the required thickness.

weberfloor DPM Pro can be applied on to concrete or cement based screed surfaces with a moisture content of up to 98% RH (measured using a hygrometer) when installed in accordance with Weber recommendations, to facilitate early overlay of moisture sensitive finishes.

Features and benefits

- Capable of one coat application
- Easy to apply
- Reduces project timescales allowing early installation of floor finishes
- Suitable for substrate up to 98% RH
- Accelerates project timelines
- **weberfloor** screed and smoothing compounds can be applied in as little as 3 hours

Uses

- For application onto concrete and cement based substrates
- Suppresses the passage of residual construction moisture up to 98% RH when full coverage is achieved



APPLICATION DEPTH



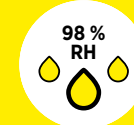
COVERING TIME



CAPABLE OF ONE COAT APPLICATION



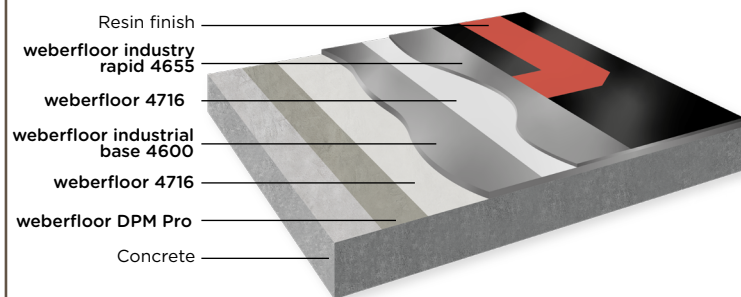
SUPPRESSES RESIDUAL CONSTRUCTION MOISTURE



MAXIMUM MOISTURE CONTENT



LOW CONSUMPTION



Constraints

- Not to be left uncovered by a suitable **weberfloor** product. Application characteristics are affected below 10°C, minimum application temperature of 5°C
- Humidity levels of the substrate must be checked with a hood hygrometer to ensure suitability prior to application of **weberfloor DPM Pro**
- Not suitable for substrates without a structural damp proof membrane - **weberfloor DPM Pro** is only designed to suppress residual construction moisture
- Surfaces should have a minimum pull-off strength of 1MPa for commercial or residential areas and 1.5MPa for industrial areas

Preparation

weberfloor DPM Pro can be applied on substrates such as suitable concrete and cement based substrates. Before applying, ensure that the concrete or screed substrate is mechanically sound, dry, clean, in good condition and free from dust, laitance, dirt and other elements such as paint, lime coatings, plaster, and adhesive residues. Remove any existing screeds, levelling and smoothing compounds that are not resistant to moisture. Additionally, eliminate any remnants of concrete curing agents, admixtures, surface hardeners, as these may hinder adhesion.

Surfaces should have a minimum pull-off strength of 1MPa for commercial or residential areas and 1.5MPa for industrial areas. New concrete or screed must be left for a minimum of 7 days before application of the membrane. Rough or uneven surfaces can be levelled with **weberfloor smooth rapid 4160** before applying **weberfloor DPM Pro** and this should be left a minimum of 2-4 hours to dry, depending on site conditions, before applying the DPM. Alternatively, a 2 coat application of **weberfloor DPM Pro** can be used on rough or uneven surfaces.

Power floated subfloors should be mechanically prepared before application of **weberfloor DPM Pro** to assist adhesion.

Avoid spanning any joints or cracks in the floor that are susceptible to movement, such as structural movement joints, with **weberfloor DPM Pro**. Instead, address these joints using a flexible impervious jointing system, ensuring it extends to the floor finish before applying a damp-proof membrane. In cases where non-moving cracks are present in the screed, it is advisable to thoroughly fill them with a suitable resin system before applying a damp-proof membrane.

Mixing

weberfloor DPM Pro is supplied in 2 pre-mix tin packaging (Component A = resin base and Component B = hardener) with the specific mixing ratio for use.

Thoroughly stir the individual components of the **weberfloor DPM Pro** before combining them. Pour the entire contents of the hardener container (Component B) into the resin container (Component A) and blend the two materials meticulously for a minimum of 2-3 minutes using a heavy-duty, slow-speed drill with a spiral paddle. To activate any residue, reintroduce some of the mixed components back into the hardener container, then pour them back into the larger mixing vessel and remix for 30 seconds.

This mixing process ensures product consistency, and any remaining resin in the containers, post-application, will cure for easier waste disposal. The mixed primer has a working time of no more than 30 minutes. After this period, any remaining material must not be used but should be safely discarded.

We do not recommend part mixing this product and it should be mixed in its entirety. After blending, **weberfloor DPM Pro** will produce heat and experience a reduction in working time if left in the mixing container or stored in bulk. Always wear appropriate eye/face protection and gloves.

Application

After blending, apply the mixture onto the floor promptly as the self-heating within the container will decrease the available working time. Apply **weberfloor DPM Pro** onto the substrate using a medium pile roller.

In order to achieve the stated performance it is essential that **weberfloor DPM Pro** is applied in all areas at a minimum thickness of 250µm, measured with a wet film thickness gauge, and that full coverage is achieved with a pinhole free finish. If this is not achieved than an additional coat of **weberfloor DPM Pro** should be applied once the first coat has set which will take approximately 2-3 hours depending on site conditions.

Apply east to west, before over rolling north to south, ensuring a continuous, pinhole free finish is achieved. **weberfloor DPM Pro** should be measured with a wet film thickness gauge to ensure that a minimum thickness of 250µm has been achieved.

Coverage is approximately 0.3kg/m². Material used should never be less than this, though surface regularity and porosity may mean that more material is required.

weberfloor DPM Pro should be allowed to dry for a minimum of 3 hours. Drying times may be impacted by site conditions.

Overlay

Once **weberfloor DPM Pro** has dried, it can then be primed with **weberfloor 4716**, diluted with water at a ratio of 1 primer to 2 water. Alternatively, a further coat of **weberfloor DPM Pro** can be applied then sand blinded with appropriate kiln dried sand.

Once the primer had dried, the **weberfloor system** can be overcoated with an appropriate **weberfloor** smoothing compound.

Please note, **weberfloor DPM** should be overcoated within 24 hours. If this is not achieved a further coat of **weberfloor DPM** can be applied within 48 hours. If more than 48 hours have passed then mechanical abrasion followed by an additional coat of **weberfloor DPM** will be required.

Cleaning

All equipment should be cleaned with **webertec solvent** before the material sets.

Packaging

weberfloor DPM Pro is supplied in two tins as resin (Component A) and hardener (Component B):

Each pack contains:

16.8kg resin or 8.4kg (Component A)

3.2kg hardener or 1.6kg (Component B)

Each mixed pack will cover approximately 63.4m² or 31.7m² (10kg) when applied at 250µm. Substrate porosity and surface regularity will greatly impact the coverage and the above values may vary.

Storage and shelf-life

Shelf life is at least 12 months from the date of manufacture when it is kept unopened, in proper storage conditions in a cool, dry area.

Health and safety

For further information, please request the Material Safety Data Sheet for this product.

Technical data

These results were obtained under laboratory conditions. Batch to batch results may fluctuate due to common cause variation.

	Test Method	
Coverage at 250µm		63.4m ² (20kg) or 31.7m ² (10kg) per mixed components**
Water vapour transmission rate at 250µm	BS EN ISO 7783	0.4 g/m ² day*
Liquid water permeability at 250µm	BS EN 1062-3	0.001kg/m ² h ^{0.5} *
Adhesive bond	BS EN 1542	3.6 MPa
Compatibility with wet concrete	EN 13578	3.0 MPa
Minimum temperature use		5°C
Pot life of 1 litre at 20°C		25 – 30 minutes

* Tested as 1 layer at 250µm and 98% RH. Additional coats will give greater performance, contact Weber for more details.

** Theoretical coverage. Porosity and surface regularity of substrate will affect coverage.

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