weberfloor DPM

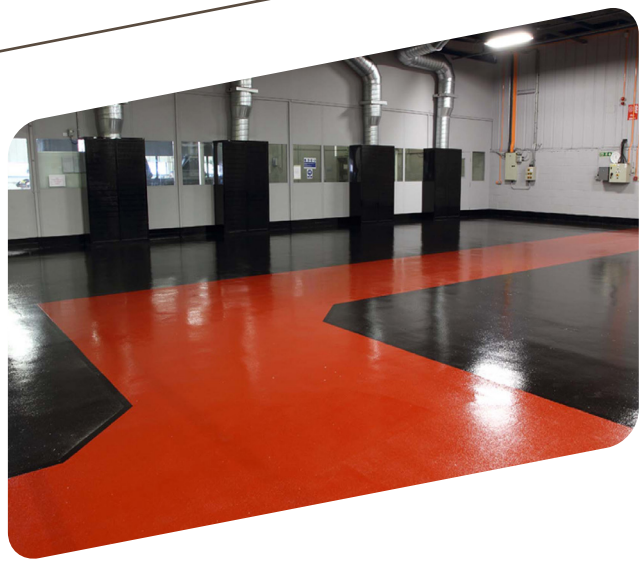
Two-component epoxy based damp proof membrane capable of one coat application

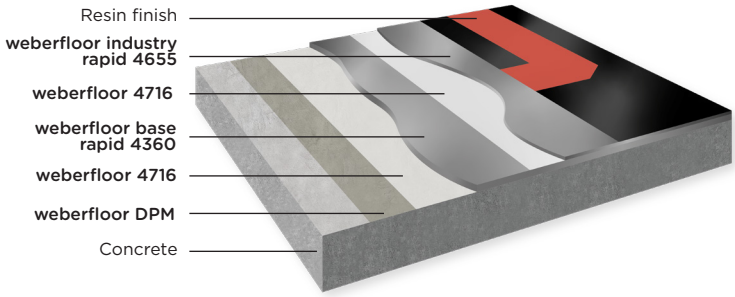
- Suppresses residual construction moisture up to 98% RH
- Capable of one coat application
- Allows faster application of final floor finishes

About this product

weberfloor DPM is a two-component epoxy based chemical 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 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
- Can be used down to 5°C, allowing work to continue during winter
- Accelerates project timelines

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

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Constraints

- Not to be left uncovered by a suitable weberfloor product
- Humidity levels of the substrate must be checked with a hood hygrometer to ensure suitability prior to application of **weberfloor DPM**
- Not suitable for substrates without a structural damp proof membrane – **weberfloor DPM** is only designed to supress residual construction moisture
- Substrates must have a surface strength ≥1 MPa

Preparation

weberfloor DPM can be applied on substrates such as concrete and cement based substrates. All surfaces must be mechanically sound, dry and clean, i.e. free from dirt, dust, grease or other contamination or coatings. Any laitance must also be removed from concrete. 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** 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** can be used on rough or uneven surfaces.

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

Application

In order to achieve the stated performance it is essential that **weberfloor DPM** is applied in all areas at a minimum thickness of 350µm, 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** should be applied once the first coat has set which will take approximately 2-3 hours depending on site conditions. Immediately after mixing spread **weberfloor DPM** onto the substrate using a medium pile roller.

Apply east to west, before over-rolling north to south, ensuring a continuous, pinhole free finish is achieved. **weberfloor DPM** should be measured with a wet film thickness gauge to ensure that a minimum thickness of 350µm has been achieved.

Coverage is approximately 0.37L/m^2. Material used should never be less than this, though surface regularity and porosity may mean that more material is required.

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

Overlay

Once **weberfloor DPM** 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** can be applied then sand blinded with appropriate kiln dried sand.

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

Please note, **weberfloor DPM** should be overcoated within 24 hours time. 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 is supplied in 5.6kg packs.

Each pack contains:

1 tin containing resin

1 bottle containing hardener

Each mixed pack will cover approximately 12.8m^2 when applied at 350µm. 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.

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Technical data

	Test Method	
Coverage (based on 350µm thickness)		12.8m² per pack**
Water vapour transmission rate	BS EN ISO 7783:2012	0.7 g/m² day*
Water vapour flow rate G	BS EN ISO 7783:2012	0.0003 g/h
Diffusion-equivalent air layer thickness Sd (m)	BS EN ISO 7783:2012	30.6m*
Water vapour resistance factor µ	BS EN ISO 7783:2012	87,116µ*
Liquid water permeability	BS EN 1062-3:2008	0.001kg/m² $h^{0.5}$
Adhesive bond	BS EN 1542:1999	3.5 MPa
Compatibility with wet concrete	EN 13578:2004	3.0 MPa
Minimum temperature use		5°C
Pot life of 1 litre		10 – 12 minutes

* Tested as 1 layer at 350µm 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. If required, an application trial can be conducted to ascertain site specific coverage rates.

All tests carried out in laboratory conditions

Saint-Gobain Weber
Dickens House, Enterprise Way,
Maulden Road, Flitwick,
Bedford, MK45 5BY

+44 (0) 1525 718877
technical@netweber.co.uk
www.uk.weber
@SGWeberUK

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