

RFS Prime DPM

Description

RFS Prime DPM consists of two solvent free components and is a damp proof membrane for the surface and also a moisture suppressant. Once cured, RFS Prime DPM produces a surface membrane providing superb adhesion to polymer modified sand/cement screeds and damp concrete. Hygrometer readings of up to 98% RH as measured in accordance with BS 8203:2001 can be accommodated. RFS Prime DPM is available in red and yellow to be used as a visual guide for application and coverage.

Typical applications

For use as a coating over cementitious surfaces possessing medium-high levels of residual moisture. Before adapting this procedure a survey should be performed to confirm adequate underlying ground stability.

RFS Prime DPM permits early overlaying with carpets, vinyl and other resin based products without having to observe the usual drying out period. Not suitable for application over floors using underfloor heating.

Thickness

450 microns (2 coat system)

Typical properties

These typical properties given may vary depending on site conditions. Results derived from a controlled laboratory environment.

Moisture vapour transfer rate- 5g/m²/day 7 day old saturated surface dry concrete- 3.2MPa adhesive strength to concrete (BS EN 13892-8:2002)

Dry concrete > 1.5MPa

BRE screed test- category A

Abrasion resistance (EN 13892-4) AR 0.5

Abrasion resistance (BS 8204-2) special class

Cure schedule

Working life of the product following mixing and immediate spreading following application instructions. These cure times are approximate and are to be interpreted as a guide only. Prevailing site conditions may affect the reported times below.

Minimum time to overcoat- 16 hours

Maximum time to overcoat- 48 hours

Substrate strength

A minimum of 25 N/mm² compressive strength with a minimum pull off strength of 1.5 N/mm². It is essential that the concrete substrate is sound.

Surface preparation

Failure and loss of adhesion will result following inadequate preparation. There is a tendency for imperfections to mirror in the final finish in the coatings or flow applied systems. Where these finishes are specified, The Resin Floor Shop recommends light vacuum shut blasting or grinding is performed rather than planing. It is strongly not advisable to perform acid etching or corrosive scattling. For technical advice please contact our technical department.

Movement joints

Cracks and movement joints cannot be filled or bridged with RFS Prime DPM. Please see our range of jointing compounds in our online store.

Hydrostatic pressure

Under certain circumstances, Hydrostatic pressure may cause adhesive failure between the substrate and the flooring. Pressure relief (eg direct drainage) must be provided wherever adhesive failure caused by Hydrostatic pressure occurs. This tends to be in areas where the groundwater table is higher than the substrate and where external tanking has not been applied. For concrete bases in contact with the ground and in new construction, a damp proof membrane needs to be incorporated into the slab design. This is in accordance with the requirements of CP102 to prevent ground moisture damaging the resin flooring. Basement floors in contact with the ground, the provisions of BS 8102 should be followed.

Mixing

RFS Prime DPM is a two component product. Mix the full contents of the hardener component thoroughly using a low speed electric stirrer fitted with a spiral paddle attachment. This should be done for a minimum of 3 minutes until the mix is homogeneous.

Application conditions

For best results the substrate and ambient temperature should ideally be between 15-25 degrees. Outside of these parameters, localised heating or cooling equipment should be utilized. The substrate or uncured floor should be at a minimum of 3 degrees above dew point. This will reduce the risk of blooming in the surface.

Application technique

Do not exceed the coverage rate of 4m²/kg under any circumstances. The product should be applied evenly using a notched trowel (1.5mm[^]5mm 'V' shaped). Whilst still wet, flatten out the edges with a pre-wetted-out short pile roller.

Using a wet film thickness gauge, ensure that each coat is no less than 200 microns in thickness. It may be useful to keep a record of these measurements. Once cured, apply a second coat at the right angles to the first. No gaps or cavities should be left and it is essential that RFS Prime DPM is continuous and pin hole free. An additional coat should be applied to achieve this. If a sand scatter is required for the key or profile, a third coat should be applied.

Coverage

4m²/kg at 225 microns at minimum, 2 coats are required. More coats may be required to achieve the maximum wet film thickness the substrate is rough or porous.

Health and safety

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EU Directive 2004/42/EL

RFS Prime DPM complies with category is SB (<500g/l). The VOC is theoretically 156g/l.

Storage and shelf life

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Limitations

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