



PSR PRIME DPM TECHNICAL DATA SHEET

Description

PSR Prime DPM is a two-component solvent-free liquid applied surface damp proof membrane and residual moisture suppressant. After curing, PSR Prime DPM provides a surface membrane with excellent adhesion to damp concrete and polymer modified sand/cement screeds. Hygrometer readings up to 98% RH as measured in accordance with BS 8203:2001 can be accommodated. PSR Prime DPM is available in red and yellow as a visual aid for application and coverage.

Uses

PSR Prime DPM has been designed for use as a coating over cementitious surfaces which possess high levels of residual moisture. This practice should only be adopted subject to a survey confirming adequate underlying ground stability. Moisture testing should be carried out in accordance with BS 8203.

PSR Prime permits early overlaying with vinyl, carpets and resin based products without the conventional "drying out" period being observed. This product is not suitable for use over under-floor heating systems.

Thickness

450 microns (two coat system)

Typical Properties, 28 days at 20 °C

Abrasion resistance(EN13892-4) AR0.5

Abrasion resistance (BS 8204-2) Special Class
BRE Screed Test Category A Adhesive strength to concrete (BS EN 13892-8:2002):

Substrate Strength

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².

Surface Preparation

Inadequate preparation will lead to loss of adhesion and failure. In coatings or flow-applied systems, there is a tendency for the finish to mirror imperfections in the substrate. Grinding or light vacuum contained shot-blasting is therefore preferred over planning where these types of finishes are specified. Percussive scabbling or acid etching is not recommended for any grade of resin flooring.

Movement Joints

Movement joints and cracks cannot be bridged with PSR Prime DPM. These should be filled with a flexible jointing material.

Hydrostatic Pressure

Hydrostatic pressure may, under certain circumstances, cause adhesive failure between the flooring and the substrate. Where this is likely to occur, such as in areas where the ground water table is higher than the substrate, and where external tanking has not been applied, pressure relief must be provided e.g. by direct drainage. In new construction, for concrete bases in contact with the ground, a damp-proof membrane should be incorporated into the slab design, in accordance with the requirements of CP 102, in order to prevent ground moisture adversely affecting the resin flooring. In the case of basement floors in contact with the ground, the provisions of BS 8102 should be followed.

Mixing

PSR Prime DPM is a two-component product. Fully drain the contents of the hardener component into the lightly coloured resin component and mix thoroughly with a slow speed electric stirrer fitted with a spiral paddle, for a minimum of 3 minutes until homogeneous.

Application Conditions

Ideal ambient and substrate temperature is 15 - 25 °C to achieve best results. Localised heating or cooling equipment may be required outside these parameters. The substrate and uncured floor must be kept at least 3° C above the dew point to reduce the risk of condensation or blooming on the surface for at least 48 hours after application.

Dry concrete

7 day old saturated surface dry concrete Moisture vapour transfer rate

> 1.5 MPa 3.2 MPa

5 g/m²/day

The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary dependent upon site conditions.

Cure Schedule at 20 °C

Working life of full packs *

Minimum time to overcoat Maximum time to overcoat 30 mins > 13hr

