



PES-CHEM 504 DPSF

PES-CHEM 504 DPSF is an epoxy resin based solvent free high build damp proof membrane specifically developed to suppress residual construction moisture and rising dampness in concrete and sand/cement screeds. The product can be used as a stand alone single coat primer for cementitious surfaces or as a primer prior to the application of PES-CHEM 501 CRSG or 502 CRXF.

Typical Applications

Cementitious surfaces that are susceptible to damp

Surface Preparation

Remove any contamination and lightly abrasive blast or scarify taking care not to expose the aggregate. Allow new concrete to cure for a minimum 21 days and remove any surface laitance before coating.

Mixing and Application

Transfer the contents of the Activator unit into the Base container and mix thoroughly until a uniform material free of any streaks is achieved. From the commencement of mixing the whole of the material should be used within 45 minutes at 68°F.

Construction joints designed to allow movement of the slab must not be bridged with PES-CHEM 504 DPSF. These joints must be sealed with a suitable jointing compound.

Transfer the mixed material to a suitable paint tray or container and apply evenly to the substrate as soon as possible by means of a short nap roller. Over large areas a soft foam squeegee can be used to initially spread, with a roller coat to finish. Sufficient material should be applied evenly to satisfy the porosity of the substrate, take care to avoid ponding of material. Once cured the coating should have a gloss finish over the whole floor, where there are signs of excessive porosity in the surface, the coating will have a dull finish. In such circumstances or where pinhole and weak spots are evident a second coat will be required.

As a guide the following coverage rates should be followed –
123 sq ft per unit for hygrometer readings below 92%
80 sq ft per unit for hygrometer readings above 92%
Two coats must be applied for hygrometer readings in excess of 98%

Cure Times

At 68°F the applied materials should be allowed to harden for the times indicated below before being subjected to the conditions indicated. These times will be extended at lower temperatures and reduced at higher temperatures:

Usable life	45 minutes
Hard Dry	8 hours
Light loading	12 hours

Technical Data Sheet



Maximum overcoating	24 hours
Full loading	3 days

Storage Life

12 months if unopened and stored in normal dry conditions (59-86°F)

Health and Safety

Please ensure good practice is observed at all times during the mixing and application of this product. Protective gloves and other recommended personal protective equipment must be worn during the mixing and application of this product. Before mixing and applying the material please ensure you have read and fully understood the detailed Material Safety Data Sheet.

Legal Notice

The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. PES accepts no liability arising out of the use of this information or the product described herein.