

Technical Data Sheet



PES-CHEM 505 DAMP SEAL – low viscosity epoxy primer for green or wet concrete surfaces

PES-CHEM 505 Damp Seal is a low viscosity solvent free epoxy primer designed to seal and consolidate green or wet concrete and cementitious surfaces.

- Penetrates deep into the concrete surface
- Ensures high mechanical adhesion with PES chemical & corrosion topcoats
- Cures at temperatures as low as 50°F

Typical applications

Penetrating primer for green or wet concrete and cementitious surfaces such as, internal & external tanks surfaces, floors, structural concrete.

Surface Preparation

Existing Concrete

1. If the concrete surface is contaminated, pressure wash using clean water.
2. Clear any standing water from the surface of the concrete.

New Concrete

1. Allow new concrete to cure for a minimum of 3-4 days and treat to remove any surface laitance.
2. Lightly scarify the surface taking care not to expose the aggregate.
3. Clean all dust and debris from the surface.

Mixing

Prior to mixing please ensure the following:

1. The base component is at a temperature between 60-77°F.
2. The ambient & surface temperature is above 50°F.

Once these 2 checks have been met, please proceed with mixing the product.

1. Transfer the contents of the Activator unit into the Base container.
2. Using an electric paddle mixer, mix the 2 components until a uniform material free of any streaks is achieved.
3. From the commencement of mixing the whole of the material should be used within 45 minutes at 68°F.

Application

Brush or roller applications

1. Pour the mixed material into a paint kettle or paint tray (this will maximise the usable life)
2. Using a 2" wide synthetic brush, stripe coat all edges, joints, corners and equipment with the mixed material. The stripe coat must be approximately 4" wide, at 6mil wet film thickness.
3. Once the stripe coat has cured sufficiently and is capable of being overcoated, apply the mixed product to all surfaces at 6mil wet film thickness. Leave to cure for a minimum of 8 hours at 68°F.
4. Once cured, the coated surface must have a semi-gloss finish, any dull patches will be caused by excessive porosity in the concrete surface. Therefore a 2nd coat of 505 Damp Seal must be applied.
5. Apply a 2nd coat of material at 6mil wet film thickness.



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Coverage Rates

1.2 US gallon (4.5ltrs) of fully mixed product will give the following coverage rates –
322ft² at 6mil 30m² at 150 microns

Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being repaired.

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
Minimum overcoating time	8 hours
Maximum overcoating time	36 hours

Pack Sizes

This product is available in the following pack sizes –
1.2 US Gallon (4.5ltrs).

Colour

Base component – Straw
Activator component – Amber

Over-coating times

Minimum - the material can be over-coated as soon as it is touch dry, approximately 8 hours at 68°F.

Maximum - the over-coating time should not exceed 36 hours.

Where the maximum over-coating time is exceeded, the material should be allowed to harden before being abraded to remove surface contamination.

Storage Life

5 years if unopened and store in normal dry conditions (60-86°F)

Other Technical Documents

Quick Application Guide	-	Brush or roller applications
Safety Data Sheets	-	Base & Activator components
Product Specification Sheet	-	Technical Performance Information

Health and Safety

Please ensure good practice is observed at all times. Protective gloves, goggles & a disposable coverall must be worn during the mixing and application of this product. Before mixing and applying the material ensure you have read the fully detailed 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 if the product is suitable for use. PES accepts no liability arising out of the use of this information or the product described herein.