



## Product Specification Sheet

### DEP 505 DAMPSEAL

**DEP 505 Dampseal** is a solvent-free clear epoxy coating which exhibits outstanding adhesion even to poorly prepared or wet surfaces. This makes it the material of choice for priming green or damp concrete and the material is also commonly used as a laminating resin.

#### Typical applications

Ideal for coating concrete floors, problematic cementitious surfaces, wet or poorly prepared steel and as a laminating resin.

#### Characteristics

##### Appearance

Base:	Clear pale yellow viscous liquid
Activator:	Clear amber liquid
Mixed:	Clear pale amber liquid

##### Mixing Ratio

By weight: 1.67:1  
By volume: 3:2

##### Density

Base:	1.15
Activator:	1.02
Mixed:	1.08

##### Solids content

100%

##### Sag Resistance

Nil at 150 microns

##### Useable Life

20°C	45 minutes
30°C	20 minutes

##### Coverage

When coating concrete, apply the mixed material onto the prepared surface by brush or roller. Coverage will depend on porosity and roughness but as a guide a practical coverage rate of 3 - 4 sq metres per litre is typical for the first coat and 5.5 sq metres per litre for subsequent coats. For priming a single coat should be applied, for coating, two or more coats should be used.

On steel surfaces coverage will be between 4 and 5.5 sq metres per litre depending on roughness.

##### Cure Times

At 20°C 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:

Hard dry	8 hours
Light loading	12 hours
Full loading	3 days
Chemical Contact	7 days

##### Storage life

5 years if unopened and stored in normal dry conditions (15-30°C)

#### Mechanical Properties

##### Adhesion

Elcometer pull off adhesion to concrete

Dry

525psi (cohesive in substrate)  
37kg/cm<sup>2</sup>

Wet

475psi (cohesive in substrate)  
33.4 kg/cm<sup>2</sup>

Tensile Shear to ASTM D1002

On abrasive blasted mild steel with 75 micron profile  
201 kg/cm<sup>2</sup> (2860 psi)

On rusted steel

167 kg/cm<sup>2</sup> (2375 psi)

##### Compressive strength

Tested to ASTM D 695  
629kg/cm<sup>2</sup> (8945 psi)

##### Flexural Strength

Tested to ASTM D790  
371 kg/cm<sup>2</sup> (5275 psi)

##### Hardness

To ASTM D2240 at 20°C  
84 Shore D

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### Quality

All DE Polymers Limited products are manufactured under the scope of a fully documented quality system.

### Warranty

DE Polymers Limited warrants that the performance of the product supplied will conform to the typical descriptions quoted within this specification provided material is stored correctly and used according to the procedures detailed in the Technical Data Sheet for the material.

### 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 Product Specification 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. DE Polymers Limited accepts no liability arising out of the use of this information or the product described herein.

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