

DEP 501 CRSG

DEP 501 CRSG is a high build solvent-free epoxy coating designed for the long term protection of steel and concrete structures against corrosion, abrasion and chemical attack. Operating temperature ranges from -20°C to 60°C. The two component product is highly resistant to marine and industrial environments, buried conditions, ground water, effluents, salt water and a wide range of oils and chemicals and is tolerant of less than ideal surface preparation.

Typical applications include, pipelines, tanks, chemical containment and bund areas, sheet and bearing piles and other land and marine structures.

Surface Preparation

1. Metallic Substrates

All oil and grease must be removed from the surface to be coated using an appropriate cleaner such as MEK.

For optimum results, the surface should be abrasive blasted to Swedish Standard SA2.5 and a minimum blast profile of 75 microns using an angular abrasive. Once blast cleaned, the surface must be degreased and cleaned using MEK and all prepared surfaces must be coated before rusting or oxidation occur.

NOTE: For salt contaminated surfaces the area must be repeatedly water washed, preferably by power washing, until ingrained salts no longer come to the surface on drying. The surface should then be abrasive blast cleaned as above prior to cleaning and degreasing with MEK.

Where abrasive blast cleaning is not possible (excluding salt contaminated surfaces) the surface should be roughened by bristle blaster, needle gun or grinding. Under these conditions adhesion levels will not be optimal although still satisfactory for most applications.

2. Concrete

Remove any contamination and lightly abrasive blast or scarify taking care not to expose the aggregate before application of DEP 501 CRSG. Allow new concrete to cure for a minimum of 21 days and likewise treat to remove any surface laitance before coating. For optimum results on damp concrete, condition with DEP 505 Dampseal. Where the concrete is dry, it is recommended to condition with DEP 503 SPEP.

Mixing and Application

Warm the Base 15-25°C before mixing and do not apply when the ambient or substrate temperature is lower than 10°C or less than 3°C above the dew point.

Transfer the contents of the Activator unit into the Base container and mix thoroughly until a uniform material free of any steaks is achieved. From the commencement of mixing the whole of the material should be used within 60 minutes at 20°C.

For small volume mixes, the mixing ratio is 2.4:1 by volume.

Apply the mixed material onto the prepared surface by brush or roller. This should be in two coats at a target thickness of 250 microns per coat using a practical coverage rate of 3.5 sq metres per litre per coat. Apply the second coat as soon as possible after the first coat is dry and not in excess of 36hours. Where the maximum over-coating interval is exceeded, the first coat should be sweep blasted and cleaned prior to over-coating.

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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:

Usable life
Movement without load or immersion
Light loading
Full loading/water immersion
Chemical Contact

60 minutes 6 hours 12 hours 4 days 7 days

Technical Data and Performance

Tensile Shear Adhesion(mild steel) ASTM D1002	197 kg/ cm² (2800 psi)
Hardness Shore D ASTM D2240	84
Corrosion Resistance (ASTM B117)	>1000 hours

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.

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

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