

CORROCOAT

**Plasmet UWP,
UWL, UWT**



**UNDERWATER REPAIR AND
STRUCTURAL REHABILITATION
COATINGS SYSTEM**

Plasmet UWP, UWL, UWT

Underwater repair and structural rehabilitation coatings system

The Plasmet underwater repair system is designed to enable underwater repairs to be made to submerged surfaces such as structural steel, pilings, jetties and other immersed structures. The system is tolerant of water, both fresh and marine, and is designed to de-water the surface to which it is applied and to cure whilst immersed.

The range includes Plasmet UWP, epoxy glass flake putty that can be used as a standalone coating or as part of a lining system with Plasmet UWL, an epoxy laminate, intended for application with glass fibre matting to add additional reinforcement to a repair. Plasmet UWT is an epoxy glass flake topcoat that completes the Plasmet underwater repair system.

All 3 coatings in the system exhibit excellent wet adhesion of greater than 9.5 MPa (measured over 90 days) and have a cathodic disbondment rate of less than 1mm when used as part of a system. The Plasmet underwater range displays exceptional resistance to salt spray and is ideal for use in marine as well as fresh water settings.

The Plasmet underwater repair system is ideal for use in numerous sectors such as oil and gas, power generation, marine, renewables, ports and water and waste where repair work might be required to be completed in a settings that are constantly submerged or subject to tidal variation.

PLASMET UWP UNDERWATER PUTTY

Plasmet UWP is epoxy glass flake putty intended for use and cure underwater. Plasmet UWP can be used either as a standalone repair material or as a lining system with Plasmet UWL and Plasmet UWT. It provides cost effective, durable protection to submerged surfaces.

Plasmet UWP should be applied over mechanically prepared or water-blasted surfaces. Given the challenging situations where Plasmet UWP might be used it is designed for ease of application by diver's glove or trowel in single coats up to 5mm for localised repairs and can be overcoated with Plasmet UWL after 24hrs.

Adhesion	>11MPa (Wet Adhesion)
Cathodic Disbondment	Excellent 0-1mm
Salt Spray	>1000 hours
Storage Life	2 years minimum in unopened tins, stored at 5°C- 40°C
Surface Preparation	Metals; Over mechanically prepared or water-blasted surfaces
Application	Divers glove or trowel
Overcoat	Plasmet UWL after 24hrs

PLASMET UWL UNDERWATER LAMINATE

Plasmet UWL is designed for use with Plasmet UWP and Plasmet UWT as an underwater repair system for use in both fresh water and marine settings. Plasmet UWL is generally applied over mechanically prepared or water-blasted surfaces, for best results Plasmet UWL should be applied over a surface primed with Plasmet UWP to provide additional reinforcement to the repair.

Tolerant of water, it will cure whilst immersed and can be over coated with Plasmet UWT after 6 hours.

Plasmet UWL is used to thoroughly wet out the glass fibre cloth above water. The glass fibre cloth can now be transported to the application site. One method of doing so is for the laminate to be applied onto a thin Perspex sheet which is the rolled into a tube and transported to site where it can be unrolled underwater and applied to the UWP using a ridged metal glass fibre matting roller. The ridged metal roller is used to ensure adequate adhesion is achieved and to prevent future cathodic disbondment occurring.

Adhesion	>11MPa (Wet Adhesion)
Cathodic Disbondment	Excellent 0-1mm
Salt Spray	>1000 hours
Storage Life	2 years minimum in unopened tins, stored at 5°C- 40°C
Surface Preparation	Metals: Generally applied over mechanically prepared or water-blasted surfaces. For best results UWL should be applied over a surface primed with Plasmet UWP
Application	Thoroughly wet out the glass fibre cloth above water before transportation to the application site
Overcoat	Plasmet UWT after 6hrs



PLASMET UWT
UNDERWATER TOPCOAT

Plasmet UWT is an epoxy glass flake topcoat, intended for application and cure underwater (in fresh and marine setting) as part of an underwater lining system with Plasmet UWP and Plasmet UWL Used for localised repair to structural steel, pilings, jetties, and other immersed structures and on structures intermittently submerged due to tidal influence.

Plasmet UWT exhibits excellent adhesion and resistance to cathodic disbondment in submerged marine conditions and can be applied with no surface preparation over Plasmet UWL at a recommended dft of 300 - 500 microns.

Adhesion	>11MPa (Wet Adhesion)
Cathodic Disbondment	Excellent 0-1mm
Salt Spray	>1000 hours
Storage Life	2 years minimum in unopened tins, stored at 5°C- 40°C
Surface Preparation	Corrocoat UWT may be applied by trowel or divers glove in a single coat
Application	By trowel or divers glove in a single coat
Overcoat	NA



Corrocoat is a member of the Corrosioneering Group which also includes Corroserve – who provide an industry-leading selection of corrosion protection and engineering services and research and development division – Corrolabs.

Working together, we provide the ultimate ‘one-stop-shop’ for our customers.

Information in this brochure is offered in good faith without guarantee or liability and is intended for purchasers having the requisite skill and experience in the industry. It is therefore the buyer's responsibility to satisfy himself as to the suitability of the product for his own particular use and it shall be deemed that the buyer has done so at its sole discretion and risk. Please contact Corrocoat Technical Department for any product and application information not covered in this brochure.

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