

PRODUCT DESCRIPTION & CHARACTERISTICS

Diver-cote™ is recommended for a wide range of applications including the protection of risers, pipes and structures below the splash zone.

Repairs holes, leaks, cracks, chips and defects with minimum effort and downtime.

Specifically designed for application underwater or in very wet areas as a protective coating for poorly prepared metal and concrete substrates.

Ideal for use on wet and saturated metal and concrete and for hand prepared or hydro-blasted surfaces.

This product reduces the risk of MIC (Microbiological Induced Corrosion) and SRB (Sulphate Reducing Bacteria).

It is an ideal product for use with other underwater application products such as **Diver-stix™** and **Diver-filler™**.

Compared to other underwater coating systems, the product offers minimal dispersion during application which in turn:-

- reduces potential contamination of the environment.
- helps to keep expensive diving suits and equipment clean.
- improves the controllability and accuracy of application as the **diver's vision is clearer for a longer period of time.**

Material can be supplied in two forms:-

- **Diver-cote™ RA 500UW-LV** as a low viscosity coating for use on submerged or wet surfaces to produce a high gloss finish. Ideal for large areas to give an aesthetically pleasing finish. Certified by NSF to NSF/ANSI 61-G Tested and Certified by NSF International for potable water applications in conjunction with Epo-chem™ RS 500P for tank capacity > 1,000 US gallons or 3,800 ltrs).
- **Diver-cote™ RA 500UW-HV** as a high viscosity coating for use on deep cracks, holes and large defects. Ideal as a repair compound for damaged surfaces.

On difficult substrates or when adhesion difficulties have been experienced, the use of Chemco's specialized primer **Epo-chem™ RS 500P** is advised.

TECHNICAL FEATURES & BENEFITS

There is less paint film dispersion (a common problem with this type of application) than traditional systems.

The coating forms a smooth, paint-like finish, enabling very high application rates to be achieved.

The system exhibits excellent abrasion resistance and is able to withstand severe physical stresses caused by wave action.

PRODUCT INFORMATION

Typical applications:		Structural steelwork, GRP, splash zone (above and below tide level) tank repairs (internal and external). Ideal for underwater repairs (metal and concrete). Ship repair work, swimming pools and ponds etc. Repair of cracks, including worn, damaged and old concrete. Standard light grey (other colours available on request).
Colour:		100%
Volume solids:		
Density:	RA 500UW-LV:	1.21 ± 0.1g/cm ³ @ 20°C
	RA 500UW-HV:	1.5 ± 0.1g/cm ³ @ 20°C
Mix ratio:		Mix part A (resin RA 500UW) and part B (hardener HF 500UW) in proportionate weights as supplied.
Thinner:		No thinning agents required.
Cleaner:		S11A
Cure:		10°C 20°C
Pot life:		2 hrs 1 hr 20 mins
Touch dry:		10 hrs 6 hrs
Hard dry:		24 hrs 12 hrs
Full cure:		14 days 3 days
Recoating interval:	Min:	4 - 6 hrs (touch dry).
	Max:	Unlimited.
Typical thickness range	RA 500UW-LV:	400 - 1000µ per coat
Typical thickness range	RA 500UW-HV:	1000 - 5000µ per coat
Theoretical coverage	RA 500UW-LV:	1.94m ² /kg @ 400µ
Theoretical coverage	RA 500UW-HV:	0.67m ² /kg @ 1000µ
		(Allow for application losses, surface irregularities, etc).
Method:	Small areas:	Stiff brush, roller, syringe, trowel, spreading knife, spatula, mitts.
	Large areas:	Power brush and/or roller.
Pack sizes:		5 and 20 kgs.

SURFACE PREPARATION

Remove all loose contamination by wire brushing or scraping.
Remove any scale, dirt and grease with water proof abrasive paper (wet & dry paper).

Abrasive blast:	Min. Sa 2
UHP water blast:	2000-2500 bar
Mechanical:	Min. St 3

LIMITATIONS

- Active or passive cathodic protection systems will produce electrical fields which can affect the bonding of the coating; the cathodic protection system therefore must be isolated and the surface allowed to de-polarize.
- There can be pre-existing electrical charges in underwater structures which may interfere with bonding.
- There are no difficulties in fresh water or with non-conductive surfaces such as concrete, fiberglass or wood.
- Always carry out a small test patch in actual marine environment prior to undertaking any large project.

Pot life:	Dependant on ambient and material temperature, the hotter the material the shorter the pot life. Vigilant care and attention to pot life is required during application. If gelling has started, do not apply.
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Environmental conditions:	Minimum steel/ambient temperature of 5°C is required for effective cure. At cold temperatures and/or wet conditions (during application) amine blooming may occur; the discolouration does not affect the performance of the coating.
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SAFETY PRECAUTIONS

It is the policy of CHEMCO INTERNATIONAL to ensure that its products are handled and applied by professionally approved and skilled applicators.
Application shall be carried out in accordance with instructions contained in this data sheet and referenced to CHEMCO INTERNATIONAL TECHNICAL SPECIFICATION MANUAL.
CHEMCO INTERNATIONAL management are intent on ensuring all work is carried out in accordance with company HEALTH & SAFETY procedures and all materials are handled with due care to COSHH regulations and instructions.

STORAGE

Store in cool, dry conditions (not less than 4°C or above 20°C).
Keep away from direct heat source and sunlight.
When not using the material, always replace the lid on the container.

SHELF LIFE

At least 24 months when stored in sealed containers at temperatures of not less than 4°C or above 20°C.
At temperatures above, refer to manufacturer for advice.

DISCLAIMER: The information contained herein is to the best of our knowledge accurate and current and is given in good faith without warranty. Users are deemed to have satisfied themselves independently as to the suitability of our products for their particular purpose. In no event shall Chemco International be liable for consequent or incidental damages.

East Shawhead Industrial Estate
Coatbridge ML5 4XD
Scotland United Kingdom

Tel: +44 (0) 1236 606060

Fax: +44 (0) 1236 606070

Email: sales@chemcoint.com

Web Site: www.chemcoint.com

