Diver - cote™

RA 500UW

Epoxy Solvent-free System Incorporating *COR-SAN*™

General Information Data Sheet

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.
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.

It will help reduce the risk of MIC (Microbiological Induced Corrosion) and SRB (Sulphate Reducing Bacteria) because it does not contain the food ingredients contained in traditional solvent-borne systems that the bacteria thrive on. Exhibits long-term resistance to the marine environment.
It is an ideal product for use with other underwater application products such as:-

- Diver-stix™
- Diver-filler™

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.
- **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.

TECHNICAL FEATURES & BENEFITS

Unique coating system formulated for above and under water applications (by incorporating *COR-SAN*™ fibre technology). Ideal for protecting large areas under water. There is less paint film dispersion (a common problem with this type of application) instead, 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.	
Colour:	Standard light grey (other colours available on request).	
Volume solids:	100%	
Density:	1.21 ± 0.01g/cm³ @ 20ºC	
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:	10ºC	20ºC
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
Pack sizes:	5 and 20 kgs	

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PRODUCT INFORMATION (cont'd)

Recoating interval:	Minimum:	4 - 6 hrs (touch dry).
	Maximum:	Unlimited.
Typical thickness range	(RA 500UW-LV):	200 - 400 microns per coat.
Typical thickness range	(RA 500UW-HV):	1.0 - 5.0mm
Theoretical coverage	(RA 500UW-LV):	3.1m^2/kg @ 250 microns.
Theoretical coverage	(RA 500UW-HV):	0.67m^2/kg @ 1.0mm
		(Allow for application losses, surface irregularities, etc).
Temperature resistance:		Maximum 60ºC (immersed).
Method:	Above water:	Airless spray, roller, brush or trowel.
	Below water:	(Power) brush and roller, syringe, trowel, spreading knife, spatula, mitts.
Airless spray application:		Pump (minimum 45:1 ratio) with a fluid twist tip: - RA 500UW-LV (23 - 31 thou.)

SURFACE PREPARATION

Underwater repairs:	Remove all loose contamination by wire brushing or scraping. Remove any scale, dirt and grease with water proof abrasive paper (wet & dry paper).
Above waterline:	Remove all loose contamination by wire brushing or scraping. For small areas roughen area with mechanical abrader. For larger areas a suitable angular metallic or non-metallic abrasive should be chosen to give a mini mum profile of 50 microns. Abrasive blast the surface to ISO 8501-1 SA2½

LIMITATIONS

Pot life:	Vigilant care and attention to pot life is required during application. If gelling has started, do not apply.

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 4ºC or above 20ºC).
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 4ºC or above 20ºC.
At temperatures above, refer to manufacturer for advice.

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