

PRODUCT DESCRIPTION & CHARACTERISTICS

Specifically designed as an underwater adhesive for bonding metal, GRP and concrete substrates.
 It can be applied underwater or onto very wet or saturated surfaces.
 Can be used on hand prepared or hydro-blasted metal and concrete substrates.
 Exhibits long-term resistance to the marine environment.
 It is an ideal product for use with other underwater application product **Diver-cote™**.

Compared to other underwater 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.**

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 glue film dispersion than traditional underwater glues (a common problem with this type of application).
 The coating forms a smooth 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:	Ideal for bonding to metal, concrete and GRP substrates. Ideal for application underwater, in splash zones or saturated substrates. Can be used for repair of tanks, pipelines, concretes, ship and boats and ponds etc. Repair of cracks, including worn, damaged and old concrete. Standard white or blue (other colours available on request).	
Colour:	100%	
Volume solids:	1.65 ± 0.1g/cm ³ @ 20°C	
Density:	Mix part A (resin RA 500UW-S) and part B (hardener HF 500UW-S) in proportionate weights as supplied.	
Mix ratio:	No thinning agents required.	
Thinner:	S11A	
Cleaner:	10°C	
Cure:	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.	
Temperature resistance:	Max: 60°C	(immersed).
Method:	Trowel, roller, spreading knife, spatula and mitts.	
Pack sizes:	1 and 5 kgs	

SURFACE PREPARATION

Remove all loose contamination by wire brushing, scraping or any other suitable mechanical method or by abrasive/water blasting.

LIMITATIONS

For metallic surfaces:

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.

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.

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.

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