

## DESCRIPTION

Diver-cote™ RA 500UW is a solvent-free coating recommended for a wide range of applications including the protection of risers, pipes and structures above/below water level. Specifically designed for application underwater or in very wet areas for metal and concrete substrates.

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## SURFACE PREPARATION

A longer service life in any project can be achieved with higher standards of surface preparation.

The surface should be to an acceptable standard of cleanliness, free from rust and all contaminants with a minimum surface profile of 50µm.

### **MECHANICAL PREPARATION**

Prepare the substrate to the best possible standard by wire brush, scraper or other mechanical tools to achieve minimum standard of St 2.

### **HP or UHP WATER JETTING**

Use high pressure (500-800 bar) water jetting to achieve minimum standard of WJ-3.

UHP is not normally required, however can be used at contractor's own discretion.

### **OTHER SUITABLE METHODS**

Grit blasting and various cavitation blasting systems can also be considered.

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## APPLICATION EQUIPMENT

### **SMALL AREAS:**

Brush, roller, trowel, putty knife, spatula or mitt/glove.

### **LARGE AREAS:**

Power brush/roller.

*\*Contact Chemco technical department for advice, assistance or further instruction.*

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## MIXING & APPLICATION INSTRUCTIONS

### **MIXING**

Two pack epoxy systems consisting of base resin and hardener.

Prior to mixing, when removing container lid, avoid contaminating material with dust and dirt.

Part A (resin) and Part B (hardener) are supplied in separate containers. Always mix Part A prior to the addition of Part B. Part mixing is **not** recommended unless accurate scales are available.

**Following the addition of Part B, the mixing should be carried out until a homogeneous, "streak-free" mix is obtained.**

Mix thoroughly, paying particular attention to the side and bottom of the container.

For 5kg and 20kg packs, the mixing must be carried out using a hand held agitator at low speed.

For 1kg packs or smaller, hand mixing can be utilised.

### **APPLICATION**

#### COATING

Material should be kept in an environment as near as possible to room temperature for at least 24 hours prior to application.

Do not store/keep materials outside in cold/hot condition or in direct sunshine.

The product components and the mix ratios are given on the product labels. Ensure the correct quantity and type for the given pack size is used.

## MIXING & APPLICATION INSTRUCTIONS (Cont.)

### COATING (Cont.)

#### **Apply Diver-cote™ RA 500UW immediately after surface preparation.**

If coating application cannot proceed immediately, surface preparation must be carried out again as the substrate will become contaminated.

Ensure the surface is fully sealed and free from discontinuities, inclusions, pinholes and holidays.

It may be necessary to apply a second coat depending on the substrate surface, life expectancy and other factors.

Impressed current Cathodic Protection (CP) may interfere with the adhesion between RA 500UW and the substrate, therefore CP must be switched off to allow the substrate to depolarize.

Residual current may exist with or without CP; structures may also be acting as a conductor and have current flowing without CP in place. Under such circumstances, the adhesion problem, in most cases, can be eliminated by applying Chemco's specialised primer Epo-chem™ RS 500P.

### POT LIFE

#### **IT IS IMPORTANT TO REMEMBER THAT THESE PRODUCTS HAVE A LIMITED POT LIFE.**

(The pot life can be obtained from the data sheets).

Once Part A and Part B have been mixed, apply the material as soon as possible.

Please note that the pot life given in the data sheets is for 10°C and 20°C and if the temperature is higher or lower, the pot life will become much shorter or longer respectively.

If gelling has started or the viscosity is increased substantially, the product should **NOT** be used any further.

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## LIMITATIONS

- Active or passive CP systems will produce electrical fields which can affect the bonding of the coating; the CP system therefore must be isolated and the surface allowed to depolarize
- There can be pre-existing electrical charges in underwater structures which may interfere with bonding
- **ALWAYS** carry out a small test patch in actual marine environment
- There are no CP difficulties in fresh water or with non-conductive surfaces such as concrete, fibreglass or wood

Pot life: Dependent 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.

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## INSPECTION

Due to the limitation of utilising inspection equipment underwater, it is necessary that a thorough visual inspection is carried out at each stage of the application process.

Thickness measurement of each coat can only be carried out using a wet film gauge.

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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