

## PRODUCT CHARACTERISTICS

Epoxy coating utilising very robust ceramic technology providing a hard wearing, abrasion and high temperature resistant (up to 210°C). Suitable for repair work on all types of fluid flow equipment. Excellent chemical resistance properties with a low friction finish leading to improved efficiency. Specifically formulated to resist very aggressive fluid flow environments and immersed conditions.

|                   |                          |                   |
|-------------------|--------------------------|-------------------|
| • Pumps           | • Castings               | • Cracked casings |
| • Pipes           | • Impellers / Propellers | • Fan blades      |
| • Heat exchangers | • Tanks                  | • Valves          |
| • Tube sheets     | • Diffusers              | • Bow thrusters   |

Deep pitting and voids can be filled with RE 900 High Temperature Renewal Compound. RE 900 is fully machinable and has excellent adhesion to RF 900. User-friendly with ease of application. Effective one-coat system that can be easily over-coated if required.

## PRODUCT DESCRIPTION

Two pack epoxy composite incorporating high performance ceramic technology. Outstanding high gloss and smooth finish.

## PRODUCT INFORMATION

|                          |  |
|--------------------------|--|
| Colour:                  | Standard dark brown.   |
| Volume solids:           | 100%   |
| Mix ratio:               | Mix parts A (resin RF 900) and part B (hardener HF 900) in proportionate weights as supplied.                                |
| Cure:                    | Catalyst induced cross-linking polymerisation.   |
| Pot life:                | 4 - 5 hrs @ 20°C   |
| Touch dry:               | 12 - 16 hrs @ 20°C   |
| Hard dry:                | 24 hrs   |
| Full cure:               | 7 days @ 20°C *  |
| Typical thickness range: | 200 - 400µ per coat.   |
| Theoretical coverage:    | 3m <sup>2</sup> /kgs @ 250µ<br>1.9m <sup>2</sup> /kgs @ 400µ<br>(Allow for application losses, surface irregularities, etc). |
| Pack sizes:              | 1 and 5 kgs  |

\* Full cure can also be achieved by post curing @ 100°C for 2h + 150°C for 1h + 200°C for 2h.

## APPLICATION DATA

|                     |                                     |                              |
|---------------------|-------------------------------------|------------------------------|
| Method:             | Brush or airless spray.             |                              |
| Thinner:            | <b>No thinning agents required.</b> |                              |
| Cleaner:            | S11A                                |                              |
| Induction time:     | 30 mins.                            |                              |
| Recoating interval: | Min:                                | 12 - 16 hrs (touch dry).     |
|                     | Max:                                | 48 hrs (prior to full cure). |

## APPLICATION

|                |  |
|----------------|--|
| Constituents:  | Two pack epoxy system consisting of base resin and hardener.               |
| Brush:         | Recommended method.  |
| Airless spray: | Not normally used for this type of product. However, can be achieved with: |
| Pump:          | Minimum 63:1 ratio with a fluid twist tip.                                 |
| Tip size:      | (19 - 23 thou.) 60° angle.   |

## SURFACE PREPARATIONS

Metallic surfaces:

Remove all loose contamination by wire brushing.  
Remove any dirt, oil, grease, etc. using a suitable cleaner/degreaser that does not leave a residue.  
A suitable angular metallic or non-metallic abrasive should be chosen to give a minimum profile of 50µ.  
Abrasive blast the metal surface to ISO 8501-1 Sa 2<sup>1/2</sup>.  
After blasting, the surface should be coated before any oxidation takes place.

**N.B.** Metallic surfaces that have been immersed for any period in salt solution, e.g. seawater, should go through a blast/wash/blast cycle (wash with clean potable water) or baked to remove all salt residues. The process should be repeated until all traces of salts have been removed.

---

## LIMITATIONS

Pot life:

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

Blasting or application should **NOT** be carried out when:

Relative humidity is > 85%  
Air temperature < 10°C  
Substrate temperature < 3°C above dew point of surrounding air.

---

## 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 12 months when stored in sealed containers at temperatures of not less than 4°C or above 20°C.  
At other temperatures, 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](mailto:sales@chemcoint.com)  
Web Site: [www.chemcoint.com](http://www.chemcoint.com)