

Unique Solvent-free, Wet & Rust Tolerant Epoxy Primer/Finish

PRODUCT FEATURES

- **Surface tolerant:** Surpasses any 'so called' surface tolerant material, hence it is called **rust tolerant**. Ideal for poorly and hand prepared surfaces (St 2 or WJ-4).
- **Moisture tolerant:** Surpasses any 'so called' moisture tolerant material, hence it is called **wet tolerant**. The product can be applied in any humidity and on really wet and sweating surfaces.
- **Solvent-free:** 100% solid, no ventilation, dehumidification or heating required. No fire hazard during application or storage.
- **Any surface preparation method:** Choose the most convenient/cost effective system, e.g. grit-blast, wet-blast, HP water-jetting (500-800 bar), UHP or mechanical.
- **Compatible:** Coating compatible with virtually every coal-tar epoxy coating or other traditional ballast tank paints.
- **Compatible** with all epoxy shop primers.
- **Cost effective:** Substantial cost savings are achieved due to minimal surface preparation, lack of supportive equipment (dehumidifiers, ventilators, heaters, etc) and quick back-in-service time (tank is operational within 6 - 12 hours after application).
- **Unlimited over-coating:** Ultimate product for start/stop maintenance projects.
- **Can cure underwater** - reducing back-in-service times.
- **Available in tropical grade RS 500P-TG**

APPLICATION

- Extensively used as **solvent-free** tank lining in Petrochemical, Offshore and Marine Industries
- Tanks - Ballast, Crude & Refined Oil and Potable Water
- Structures, Pipes (including sweating pipes)
- Splash zones, Jetties, Tidal zones, Swimming pools
- New Builds (on Shop Primed Steel)
- Stainless Steel, New & Aged Galvanized Steel

CERTIFICATES/APPROVALS

- ABS Certified: Ballast Tank Maintenance Coating
- IMO Approval: Ballast Tank Coating
- Lloyd's Approval: Ballast Tank Maintenance Coating
- Lloyd's Type Approval - New Build Applications (Bare Steel and Shop Primers)



PRODUCT DATA		
General:	Discolouration and fading of colour can occur on exposure to UV, in line with all epoxies. For decorative colour finish, apply one of Chemco's special topcoats.	
Colour:	Standard medium grey; limited range of colours available on request.	
Volume solids:	100%	
Mix ratio:	Mix part A (resin RS 500P) and part B (hardener HR 500P) in proportionate weights as supplied.	
	5 kgs	20 kgs
RS 500P (Part A):	4.18	16.72
HR 500P (Part B):	0.82	3.28
Cure:	Cross-linking polymerisation.	
Typical thickness range:	50 - 250 microns per coat.	
Theoretical coverage:	6.25m ² /kg @ 100 microns. (Allow for application losses, surface irregularities, etc).	
Temperature resistance:	Maximum 60°C (immersed).	
Pack sizes:	5 and 20 kgs (other pack sizes available on request).	
Typical density:	1.6 ± 0.1	
Flash point:		
RS 500P (Part A):	>125°C	
HR 500P (Part B):	105°C	
APPLICATION DATA		
Method:	Airless spray, brush or roller.	
Thinner:	T5 (not required). Use 2.5 - 5% for spray application in cold conditions and/or long hoses over 50m. Do not use thinners in potable water application.	
Cleaner:	S11A	
Recoating interval:	Minimum: Touch dry. Maximum: Unlimited.	
Pot life (minutes)*:	RS 500P	15°C 30°C 65 30
	RS 500P-TG	15°C 30°C 140 65
Drying time (hours)*:	Touch dry:	4 - 8 2 - 4 8 - 12 4 - 8
	Hard dry:	12 - 16 6 - 8 24 12 - 16
*Depending on environmental factors such as humidity, airflow, etc.		
APPLICATION		
Constituents:	Two pack epoxy system consisting of base resin and hardener.	
Mixing:	Part A (resin) and part B (hardener) are supplied in separate containers. Always mix part A prior to addition of part B . Part mixing is not recommended unless accurate scales are available.	
Airless spray:	Pump: Tip size: Tip pressure:	Minimum 45:1 ratio (preferably 63:1), large volume delivery is essential (17 - 19 thou.) 60° angle, heavy duty reversible. 3,000 psi minimum. Use 3/8" (10mm) hose to maximum 30m [1/2" (13mm) for longer distances] with 1/4" (6mm) whip end. Use as short a line as possible. Remove all filters from the gun and pump.
Brush or roller:	For inaccessible or awkward areas or when spray application is not required or feasible.	

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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APPLICATION CONDITIONS		
Paint temperature:	Min. 10°C	Max. 35°C
Application ambient temperature:	5°C	40°C
ENVIRONMENTAL CONDITIONS		
Environmental conditions:	There are no humidity or dew point restrictions. Minimum ambient/steel temperature of 5°C is required for effective cure.	
SURFACE PREPARATION		
Use in accordance with the standard Worldwide Marine Specifications.	Remove weld spatter, smooth weld seams and remove sharp edges by rounding to minimum radius of 2mm.	
Abrasive blast:	Min. Sa 1	
Water-jetting:	Min. WJ-4	
Mechanical:	Min. St 2	
Surface profile:	Min. 50 microns	
Network Rail:	Surface preparation for aged and new galvanised substrate (Network Rail Specification X099). Surface preparation for existing weathered paintwork (Network Rail Protective Treatment XM9).	
CLEANLINESS		
Cleanliness:	All surfaces to be coated must be clean and free from contamination. High pressure fresh water wash or fresh water wash as appropriate; remove all grease, oil, soluble contaminants and other foreign matter.	
Residual dust levels:	Must not exceed rating "1" for dust size classes '3', '4', or '5' (ISO 8502-3:1993).	
Residual soluble salt levels:	Must not exceed 50mg/m ² .	
LIMITATIONS		
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.	
Airless spraying:	Preferably keep the material at room temperature when airless spraying.	
Environmental conditions:	Minimum steel/ambient temperature of 5°C is required for effective curing of the system. At cold temperatures 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.	

PLACE OF MANUFACTURE:

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