

## Solvent-free, Wet Tolerant, Glassflake Epoxy

Short Version

### PRODUCT FEATURES

- **Moisture tolerant:** Surpasses any 'so called' moisture tolerant material, hence it is called **wet tolerant**. The product can be applied in any humidity. High humidity, rain or water has no detrimental affect on coating performance.
- **Solvent-free:** 100% solid, no ventilation, dehumidification or heating required. No fire hazard during application or storage.
- **Cost effective:** Substantial cost savings are achieved due to alternative 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).
- **Can cure underwater** - reducing back-in-service times.
- **Unlimited over-coating:** Ultimate product for start/stop maintenance projects.
- **Compatible:** Coating compatible with virtually every coal-tar epoxy coating or other traditional ballast tank paints.
- **Compatible** with all epoxy shop primers.
- **Long-term protection:** Glassflakes technology ensures long-term performance, life expectancy up to 25 years (with guarantee), far exceeding IMO/PSPC latest requirements. Adhesion test result on wet substrates far exceeds the industry norms (for dry grit blasted) attaining over 1300psi before cohesive failure.
- **Reduces the risk of MIC** (Microbiological Induced Corrosion) and SRB (Sulphate Reducing Bacteria) as it does not contain solvents.
- **Excellent chemical resistance.**

### APPLICATION

- Tanks - ballast, crude & refined oil, potable water, dry cargo and grey/black water.
- Void spaces, cofferdams.
- Structures, pipes.
- Decks and internal floors.
- New Builds.

### CERTIFICATES/APPROVALS

- ABS Certified - Ballast Tank Maintenance Coating
- **Lloyd's Approval** - Ballast Tank Maintenance Coating
- **Lloyd's Type Approval** - New Build Applications (Bare Steel and Shop Primers)
- FDA Approval - Potable Water
- FDA Approval - Food Contact



Certified by NSF to NSF/ANSI 61-G Tested and Certified by NSF International for potable water applications in conjunction with Epo-chem™ RS 500P (for tank capacity > 1,000 US gallons or 3,800 ltrs). For specific application instruction relating to NSF certification, please refer to [www.nsf.org](http://www.nsf.org)



PRODUCT INFORMATION	
General:	Discolouration and fading of colour can occur on exposure to UV, in line with all epoxies. For all decorative colour finish, apply one of Chemco's UV resistant topcoats.
Colour:	Standard light grey (RAL 7047). Other colours available on request.
Volume solids:	100%
Mix ratio:	Mix part A (resin RA 500M) and part B (hardener HF 500M) in proportionate weights as supplied.
RA 500M (Part A):	<b>5 kgs</b> <b>20 kgs</b>
HF 500M (Part B):	3.67                      14.68
	1.33                      5.32
Cure:	Catalyst induced cross-linking polymerisation.
Typical thickness range:	200 - 600 microns per coat. No maximum limitations.
Theoretical coverage:	3.1m <sup>2</sup> /kg @ 250 microns. (Allow for application losses, surface irregularities, etc).
Temperature resistance:	Maximum 60°C (immersed).
Pack sizes:	5 and 20 kgs
Typical density: Mixed:	1.2
Flash point:	
RA 500M (Part A):	105°C
HF 500M (Part B):	110°C
APPLICATION DATA	
Method:	Airless spray, brush and roller.
Thinner:	T5 (max 5% if required). Use 2.5 - 5% for spray application in cold conditions and/or long hoses over 50m.
Cleaner:	S11A
Recoating interval:	<b>Min:</b> <b>Max:</b>
Over-coating interval with topcoats:	4 - 6 hrs (touch dry)                      Unlimited
	4 - 6 hrs (touch dry)                      48 - 72 hrs
Drying time:	<b>10° C</b> <b>20° C</b> <b>30° C</b>
Touch dry:	10 - 12 hrs                      5 - 6 hrs                      3 - 4 hrs
Hard dry:	20 - 24 hrs                      10 - 12 hrs                      6 - 8 hrs
Walk-on time:	20 - 24 hrs                      10 - 12 hrs                      6 - 8 hrs
Pot life:	110 - 120 mins                      70 - 80 mins                      40 - 60 mins
Minimum time before ballasting:	10 - 12 hrs                      5 - 6 hrs                      3 - 4 hrs
APPLICATION	
Constituents:	Two pack epoxy system consisting of base resin and hardener.
Mixing	Part <b>A</b> (resin) and part <b>B</b> (hardener) are supplied in separate containers. Always mix part <b>A</b> prior to addition of part <b>B</b> . Part mixing is <b>not</b> recommended unless accurate scales are available.
Airless spray:	
Pump:	Minimum 45:1 ratio (preferably 63:1), large volume delivery is essential.
Tip size:	(21 - 25 thou. Ideal 23 thou.) 60° angle, heavy duty reversible.
Tip pressure:	3,500psi minimum.
	<b>Use 3/8" (10mm) hose to maximum 30m [1/2" (13mm) for longer distances] with 1/4" (6mm) whip end.</b>
	Use as shorter line as possible.
	Remove all filters from the gun and pump.

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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<b>APPLICATION cont.</b>		
Brush or roller:	For inaccessible or awkward areas or when spray application is not required or feasible.	
<b>APPLICATION CONDITIONS</b>		
	<b>Min.</b>	<b>Max.</b>
Paint temperature:	10°C	35°C
Application ambient temperature:	5°C	40°C
<b>ENVIRONMENTAL CONDITIONS</b>		
Environmental conditions:	There are no humidity or dew point restrictions. Minimum ambient/steel temperature of 5°C is required for effective cure.	
<b>SURFACE PREPARATION</b>		
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 2 (ISO 8501-1:1998), SSPC-SP 6	
Water-jetting:	Min. WJ-2, HB2L/M	
Mechanical:	Min. St 3	
Surface profile:	Min. 50 microns.	
<b>CLEANLINESS</b>		
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:	<b>Must not exceed rating "1" for dust size classes '3', '4' or '5' (ISO 8502-3:1993).</b>	
Residual soluble salt levels:	Must not exceed 50mg/m².	
<b>LIMITATIONS</b>		
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 cure. At cold temperatures and/or wet conditions (during application) amine blooming may occur; the discolouration does not affect the performance of the coating.	

<b>LIMITATIONS cont.</b>	
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.
<b>PLACE OF MANUFACTURE:</b>	
<b>SCOTLAND, UNITED KINGDOM</b>	
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