

IMO: PSPC Resolution MSC.215(82) Compliant Ballast Tank Coating
IMO: PSPC Resolution MSC.288(87) Compliant Oil Cargo Tank Coating

Solvent-free, Wet Tolerant, Glassflake Epoxy

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.

CERTIFICATION

- IMO PSPC Resolution MSC.215 (82)
- ABS Certified - Ballast Tank Maintenance Coating
- ABS Certified - COT Approved Oil Cargo Tank Coating
- Lloyd's Approval - Ballast Tank Maintenance Coating
- Lloyd's Type Approval - New Build Applications (Bare Steel and Shop Primed Steel)
- 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



| PRODUCT INFORMATION | |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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): | 5 kgs 20 kgs |
| HF 500M (Part B): | 3.67 14.68 |
| | 1.33 5.32 |
| Cure: | Catalyst induced cross-linking polymerisation. |
| System thickness: | Min. Max. |
| RA 500M: | 250µ No limit. |
| RS 500P: | 100µ No limit. |
| Total min DFT: | 350µ |
| Recommended number of coats: | 2 |
| Theoretical coverage: | 3.1m ² /kg @ 250 microns. (Allow for application losses, surface irregularities, etc). |
| Pack sizes: | 5 and 20 kgs. |
| Specific gravity: | |
| RA 500M (Part A): | 1.2 - 1.35 g/cm ³ @ 20°C |
| HF 500M (Part B): | 1.0 - 1.05 g/cc @ 20°C |
| Mixed: | 1.2 - 1.25 g/cc @ 20°C |
| 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: | Min: 4 - 6 hrs (touch dry). Max: Unlimited. |
| Drying time: | 10°C 20°C 30°C |
| Touch dry: | 10 - 12 hrs 5 - 6 hrs 3 - 4 hrs |
| Hard dry (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 |
| Full cure: | 9 days 7 days 3 days |
| Post curing: | For faster return to service, apply dry heat for 24 hrs at 50° C or 48 - 72 hrs at 30° C. |
| Note: | For potable water tanks, allow full cure and detergent wash before return to service. |
| 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. |
| Brush or roller: | For inaccessible or awkward areas or when spray application is not required or feasible. |
| Stripe coats: | Should be applied by brush/roller to all weld seams and sharp edges. |

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 cont. | |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Airless spray: Pump: Tip: Tip pressure: | Minimum 45:1 ratio (preferably 63:1), large volume delivery is essential. (21 - 25 thou. Ideal 23 thou.) 60° angle, heavy duty reversible. 3,500psi minimum. Use 3/8" (10mm) hose to maximum 30m [1/2" (13mm) for longer distances] with 1/4" (6mm) whip end. Use as shorter line as possible. Remove all filters from the gun and pump. |
| 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. |
| IMO requirements: | Sa 2½ (ISO 8501-1:2007 and surface profile 30-75 (ISO 8503-1/2:1998)). |
| Chemco standards: | |
| Abrasive blast: | Min. Sa 2 |
| Water-jetting: | Min. WJ-2 |
| Mechanical: | Min. St 3 |
| CLEANLINESS | |
| Cleanliness: | All surfaces to be coated must be clean, dry and free from contamination. High pressure fresh water wash or fresh water wash as appropriate, and remove all grease, oil, soluble contaminants and other foreign matter in accordance with SSPC-SP1 : solvent cleaning. |
| 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 as extracted and measured in accordance with ISO 8502-6 (1995) and ISO 8502-9 (1998) respectively. |
| SHOP PRIMERS | |
| Approved: | Must be applied in accordance with PSPC MSC.215(82) to a minimum standard of Sa 2½ (ISO 8501-1:2007) and over a blast profile of 30-75 (ISO 8503-1/2:1998). (For full details refer to the relevant shop primer product data sheet). |
| Intact shop primer: IMO regulations: | May be retained. The intact shop primed steel should be cleaned by high pressure fresh water wash. Damaged and weld areas can be prepared by mechanical to St 3 or grit blast to Sa 2½ (ISO 8501-1:2007). |
| Chemco standard: | Can be retained. The intact shop primed steel should be cleaned by high pressure fresh water wash. Damaged and weld areas can be prepared by mechanical to St 3 or HP water-jetting (WJ-2) or grit blast to Sa 2½ (ISO 8501-1:2007). |
| Non-approved: IMO regulations: | Minimum 70% must be removed by abrasive blast to Sa 2 (ISO 8501-1:2007) with surface profile of 30 - 75µ (ISO 8503-1/2:1998). |

| SHOP PRIMERS cont. | |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| After erection: IMO regulations: | Erection joint welds and adjacent areas can be prepared by abrasive blasting to Sa 2½ (ISO 8501-1:2007) or by mechanical (St 3) (ISO 8501-1:2007). |
| Chemco standard: | Can be retained. The shop primed steel should be cleaned by high pressure fresh water wash. Damaged and weld areas can be prepared by mechanical to St 3 or HP water-jetting (WJ-2) or grit blast to Sa 2½ (ISO 8501-1:2007). |
| APPLICATION CONDITIONS | |
| | Min. Max. |
| Paint temperature: | 10°C 35°C |
| Application ambient temperature: | 5°C 40°C |
| Chemco standard: | This product is totally wet tolerant. There are no humidity or dew point restrictions. |
| ENVIRONMENTAL CONDITIONS | |
| IMO requirement: | Relative humidity is < 85% Air temperature > 5°C Substrate temperature > 3°C above dew point of surrounding air. SA 2½ (ISO 8501-1:2007 and surface profile 30-75 (ISO 8503-1/2:1998). |
| LIMITATIONS | |
| 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. |
| 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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