

## PRODUCT CHARACTERISTICS

**Solvent-free** epoxy novolac imparts outstanding protection to metal and concrete substrates.

Forms a durable barrier resistant to abrasion, erosion and thermal shock.

Ideal tank lining system, specifically designed for the most aggressive combination of high temperature and chemical environments in immersed conditions.

Available in hand/trowel grades for optimum protection from the most aggressive environments.

**Also available in spray grade to offer the customer a complete system's solution to hostile cyclic wet and dry chemical environments.**

Recommended for internal protection of tanks, vessels, separators, flue gas desulphurisation units, chimneys, pipes and equipment operating at high temperature.

May be applied in one or more coats to most substrates.

## PRODUCT DESCRIPTION

Two pack epoxy novolac, reinforced with screened glassflake.

## PRODUCT INFORMATION

Colour:	Standard grey (other colours at customers request).
Volume solids:	100%
Mix ratio:	Mix part A (resin RW 500) and part B (hardener HW 500) in proportionate weights as supplied.
Mix density:	1.10 - 1.20g/ml
Cure:	Catalyst induced cross-linking polymerisation.
Typical thickness range:	200 - 1,200µ per coat.
Theoretical coverage:	3.1m <sup>2</sup> /kgs @ 250µ 1.5m <sup>2</sup> /kgs @ 500µ (Allow for application losses, surface irregularities, etc).
Temperature resistance:	Immersed: 125°C Dry: 180°C (discolouration may occur).
Pack sizes:	5 and 20 kgs

## POST CURING

Post curing will enhance the chemical, temperature and abrasion resistance of the system.

Use dry heat to achieve 80°C substrate temperature for minimum 4 hours.

Lower temperature (e.g. 50°C) will not be effective unless it is used for a much longer period of 2 - 3 days.

Steam curing can be utilised only if the coating has been sufficiently cured/aged.

The most effective post curing is to achieve similar or higher temperature than working temperature of the vessel.

## APPLICATION DATA

Method:	Airless spray, roller, brush or trowel.
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 @ 20°C:	Min: 4 - 8 hrs (touch dry). Max: 24 hrs
Pot life:	45 mins
Cure:	36 hrs - 7 days (depending on temperature and other environmental conditions).

## APPLICATION

Constituents: Mixing:	Two pack epoxy system consisting of base resin and hardener. 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: 23 - 31 thou. Ideal 27 thou. 60° angle, heavy duty reversible.
	Tip pressure: 3,500psi minimum. Use as shorter line as possible. Remove all filters from the gun and pump.

## 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 <b>not</b> 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.

## ENVIRONMENTAL CONDITIONS

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

Relative humidity is > 90%  
Air temperature < 5°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 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.

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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