

**DESCRIPTION** two component solvent free amine cured phenolic epoxy coating

**PRINCIPAL CHARACTERISTICS** one coat tank coating system

- excellent resistance to crude oil up to 90°C
- suitable for storage of unleaded gasolines blended up to 100% ethanol (E5 up to E100)
- suitable for storage of biodiesel (EN14214)
- good chemical resistance against a wide range of chemicals and solvents
- good visibility due to light colour
- semigloss and smooth appearance

  

- easy to clean
- can be applied by heavy duty single feed airless spray equipment (60:1)
- reduced explosion risk and fire hazard

**COLOURS AND GLOSS** green, cream, clear - semigloss

**BASIC DATA AT 20°C** (1 g/cm<sup>3</sup> = 8.25 lb/US gal; 1 m<sup>2</sup>/l = 40.7 ft<sup>2</sup>/US gal)  
(data for mixed product)

Mass density 1.4 g/cm<sup>3</sup>  
Volume solids 100%  
VOC (supplied) max. 94 g/kg (Directive 1999/13/EC, SED)  
max. 131 g/l (approx. 1.1 lb/gal)  
see information sheet 1411

Recommended dry film thickness 300 - 600 µm depending on system  
Theoretical spreading rate 3.3 m<sup>2</sup>/l for 300 µm \*  
Touch dry after 8 hours  
Overcoating interval min. 24 hours \*  
max. 2 months \*  
Full cure after 6 days \*

(data for components)

Shelf life (cool and dry place) at least 12 months

\* see additional data

**RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES**

- steel; blast cleaned to a minimum of ISO-Sa2½, blasting profile 50 - 100 µm
- substrate temperature should be above 5°C and at least 3°C above dew point during application and curing

## INSTRUCTIONS FOR USE

mixing ratio by volume: base to hardener 80 : 20

- the temperature of the mixed base and hardener should preferably be at least 20°C
- at lower temperature the viscosity will be too high for spray application
- no thinner should be added
- for recommended application instructions: see working procedure

Induction time

none

Pot life

1 hour at 20°C \*

\* see additional data

## AIRLESS SPRAY

use heavy duty single feed airless spray equipment preferably 60:1 pump ratio and suitable high pressure hoses

Recommended thinner

no thinner should be added

Nozzle orifice

approx. 0.53 mm (= 0.021 in)

Nozzle pressure

at 20°C (paint temperature) min. 28 MPa (= approx. 280 bar; 4000 p.s.i.)

at 30°C (paint temperature) min. 22 MPa (= approx. 220 bar; 3000 p.s.i.)

## Fill & Drain Method

Mix both components, pour into tank and rotate to even coverage.

Tank and Sealant should be at the same temperature, at least 20°C

## CLEANING SOLVENT

Thinners

- all application equipment must be cleaned immediately after use
- paint inside the spraying equipment must be removed before the pot life time has been expired

## SAFETY PRECAUTIONS

material safety data sheets

although this is a solvent free paint, care should be taken to avoid inhalation of spray mist as well as contact between the wet paint and exposed skin or eyes

- no solvent present; however, spray mist is not harmless, a fresh air mask should be used during spraying
- ventilation should be provided in confined spaces to maintain good visibility

## ADDITIONAL DATA

### Film thickness and spreading rate

theoretical spreading rate m<sup>2</sup>/l 3.3 1.7

dft in µm 300 600

max. dft when brushing: 150 µm

## **measuring wet film thickness**

- a deviation is often obtained between the measured apparent wft and the real applied wft
- this is due to the thixotropy and the surface tension of the paint which retards the release of air trapped in the paint film for some time
- recommendation is to apply a wft which is equal to the specified dft plus 60  $\mu\text{m}$

## **measuring dry film thickness**

- because of low initial hardness the dft cannot be measured for some days (depending on ambient temperature) after application due to the penetration of the measuring device into the paint film
- the dft should be measured using a calibration foil of known thickness placed in between the coating and the measuring device

## **Overcoating table with itself (spot repair and stripe coating)**

substrate temperature	10°C 20°C 30°C
minimum interval	36 hours 24 hours 16 hours
maximum interval	3 months 2 months 1 month

- surface should be dry and free from any contamination

## **Curing table**

substrate temperature	dry to handle full cure
10°C	40 hours 10 days
20°C	18 hours 6 days
30°C	12 hours 4 days

- adequate ventilation must be maintained during application and curing
- for storage and transport of drinking water the recommended working procedure should be followed

## **Pot life (at application viscosity)**

20°C	60 min.
30°C	45 min.

- due to exothermic reaction, temperature during and after mixing may increase

## **LIMITATION OF LIABILITY**

The information in this data sheet is based upon laboratory tests we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the Tank Care Products Protective & Marine Coatings, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge are reliable. The products and information are designed for users having the requisite knowledge and industrial skills and it is the end-user's responsibility to determine the suitability of the product for its intended use.

Tank Care Products has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Tank Care Products does therefore not accept any liability arising from loss, injury or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise).

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This data sheet replaces and annuls all previous issues and it is therefore the user's responsibility to ensure that this sheet is current prior to using the product.

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