

ALPHA KOTE®

Single Component Air Cure Coating
Immersion in Fresh/Salt Water

Date of First Issue: 24/10/08

Revised on: 07/09/09

Revision No: 2

Description

ALPHA KOTE is a water-borne single component polyurethane emulsion formulated to be surface tolerant and corrosion resistant. **ALPHA KOTE** proprietary food grade resin blend with high quality components ensures effective sealing of tight rust and provides a seamless rubber like surface that is both flexible and impervious to liquid water. The flexibility of **ALPHA KOTE** provides excellent protection against reverse impact damage. **ALPHA KOTE** is **environmentally friendly and non-flammable**

Performance Specifications

- Single Component
- Air Dries
- Non-Flammable
- Odourless
- Surface Tolerant Features
- VOC Compliant
- Ease of Application/Installation
- Easily re-coatable

Recommended Applications

- Salt/Fresh Water Ballast Tanks
- Cold Water Storage Tanks
- Plant Equipment
- Offshore Marine Structures

Surface Preparation-Carbon Steel

- For optimum long term coating system performance it is strongly advised slurry blasting surface to NACE SB2-L surface standard. Garnet ,Mesh Size 60, is the recommended blasting media
- Power tool all weld seams and ensure weld slag is totally removed. Grind down all sharp edges and burn marks. Remove all surface indentations by power tooling/scrapping.
- Ensure fresh water wash down, to remove excess salts, and proper drying of surface prior to commencement of coating works.

Technical Data

Theoretical Spread Rate	2.5sqm/litre at 150 microns DFT (2 coat system)
Film Thickness	300 microns DFT
Application Temperature	Between 10 deg C and not exceeding 60 deg C
Application Required	2 coats at a total DFT of 300 microns
Dry Times	2 hr to touch at 28 deg C and 4 hrs to recoat
Curing Time (Max.Hardness)	2 Days
Pot Life	Not Applicable
Flash Point	

Mixing

Thoroughly mix to a uniform consistency with a power drill for about 5 minutes. Do not open pails until ready to use. Reseal pails when not in use

Application Equipment/Guidelines

For first aid repairs and small areas ideal method will be by rollers or brushes. When large areas are involved an airless spray pump with a minimum turn down ratio of 45:1 is recommended. Pump operating pressure will vary between 80 to 90 psig. Tip sizes will vary between 17 and 19. Ensure surface temperature is always at least 3 deg C above dew point. Ensure surface is free of condensation prior to commencing coating works. Forced ventilation must be provided for at least 24 hrs after coating application to ensure complete curing before ballasting tanks. **Thinning** of product is **strictly prohibited**. Such thinners contain flammable VOCs that undermine the non flammability rating of our product. Thoroughly flush spray equipment with water immediately after use. Clean all tools immediately after use with water.

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Packaging and Storage

Supplied in Tri-Lock Pails either as 20 kg packs or 5kg repair kits. If stored at 28 deg C in a ventilated warehouse shelf life of 1 year can be expected.

Non-flammable, Non-Hazardous, Non-HAZMAT.

No shipping restriction required.

Colours

Standard colours are light and medium Grey.

Custom colours are available with a minimum order of 1000 kgs.

Limitations

- a) **Not to be used with cathodic protection where surface standards of SA 2.5 are not achieved.**

Disclaimer

Alpha Omega Coatings P/L products are expressly warranted to meet applicable technical and quality specifications. The technical information contained in this bulletin is accurate at the date of issuance but is subject to change without prior notice. No warranty of accuracy is hereby given or implied. The User must review suitability of product and the specifics relating to application before ordering. Alpha Omega Coatings P/L assumes no responsibility for coverage, performance or injuries resulting from handling or use and **LIABILITY, IF ANY, SHALL BE LIMITED TO PRODUCT REPLACEMENT.** Under no circumstances will Alpha Omega Coatings P/L be liable for consequential damages. Alpha Omega Coatings P/L disclaims all other warranties of merchantability and fitness for a particular purpose.

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Precautionary Information

Although **Alpha Kote** is a non-flammable and odourless product it is recommended that all safety precautions and procedures described in OSHA regulations for work in confined spaces be strictly observed. This would include but may not be confined to the following:

- 1) Provide forced ventilation prior to commencement, during and after completion of coating works. Air quality monitoring to be carried out during all stages of work to ensure safe O₂, H₂S, CO, SO₂, and combustible gases levels are maintained.
- 2) Appropriate PPE is issued to all personnel involved in the coating works
- 3) See MSDS for complete precautionary and disposal information

If instructions and warnings cannot be strictly followed, do not use this product