

KM2™ DATA SHEET

KM2™ is a two part, non-metallic, cross-linked, polymeric epoxy coating, specifically designed for use in harsh, corrosive environments, where a tough, hard film, having outstanding chemical resistance, is required. Excellent for immersion usage for ships, barges, concrete or steel storage tanks, pipes, etc., at a standard 10 to 12-mil Dry Film Thickness (DFT).

Typical applications of **KM2™** include all types of tanks used for chemical storage, crude oil transport, fuel oil storage, or sea-water ballast. **KM2™** exhibits superior fouling-resistant properties to facilitate easy cleaning of ship hulls, off-shore drilling platforms, buoys, docking facilities, etc., as well as a variety of other applications requiring extreme resistance to environmental deterioration and chemical corrosion. **KM2™** is UV-sensitive and not recommended for use where UV-resistance is essential.

Component Properties

Base Compound:

Appearance Low Viscosity, Off-white Liquid

Solid Content 90%

Curing Agent

Appearance Light Brown Liquid

Solid Content @ 97%

Mixing & Application Properties

KM2™ is supplied in a pre-measured kit containing exact amounts of Base Compound and Curing Agent, which are then mixed thoroughly until completely uniform.

V.O.C. (kit mix: 600 cps) @100 gr/l (@0.9 lbs/gal)

V.O.C. (HVLV mix) @250 gr/l (@2.25 lbs/gal)

"Pot" Life 3- to 4-hours at 75°F

"Tack-Free" (re-coat) time 4-hours

"Stack" Time approx. 20-hours

"Cure" Time (optimum chemical resistance): 96-hours

Cured Properties

Color Off-white

WFT (per coat) 6-mil

DFT (two coats) 10-Mil

Tensile Strength >10,000 p.s.i.

Flexural Strength > 9,500 p.s.i.

Hardness >4H

Direct Impact Resistance >150 lbs./in.

Salt Spray: 2,000 hours (ASTM B-17) No Change

Adhesion:

Steel, Aluminum, Concrete, Etc. Excellent

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Toll Manufactured for:

TradeWinds International, Inc.

1374½ Colorado Street

Glendale CA 91205-1475

v: 818-500-1921; toll free: 888-463-3003;

f: 818-500-3973; e-mail: tradewinds@usa.com

Chemical Resistance

{1-year full immersion at 75°F}

Acids:

Sulfuric 10% - 25% No Deterioration

Hydrochloric 10% - 37.5% No Deterioration

Acetic 10% - 15% No Deterioration

Other:

Sea Water No Deterioration

Caustic Soda 50% No Deterioration

Ammonia 25% No Deterioration

Bleach No Deterioration

Ethanol 96% No Deterioration

Butanol No Deterioration

Ethylene Glycol No Deterioration

Toluene No Deterioration

O-Xylene/P-Xylene No Deterioration

Crude Oil No Deterioration

Gasoline No Deterioration

Benzene No Deterioration

M.E.K. Softens after several hours

Application

KM2™ may be applied by brush, roller or standard spray equipment. Thin with 5 - 10% M.E.K. for spray application.

Surface Preparation

All surfaces to be coated should be clean, dry and free of moisture, oil, grease and other contaminants, including loose oxidation or oxidized paint. Project-specified cleaning procedures should be followed.

Coverage

KM2™ covers @ 220 sq.ft./gal at 6-mil WFT (5-mil DFT).
10-mil DFT (two coats) will cover @ 110 sq.ft./gal.

Clean-up

Immediately after use, or before **KM2™** cures, equipment and tools may be cleaned with M.E.K. or Toluene.

Packaging

1-gallon can kits, 5-gallon pail kits & 55-gallon drums.