

MARINEKOTE II™ DATA SHEET

MarineKote II™ is a two part, non-metallic, cross-linked, silicone-epoxy copolymer coating, specifically designed for low coefficient of friction in harsh, corrosive environments, where a tough, hard film with outstanding chemical resistance is required. The "non-stick" properties also inhibit growth of marine organisms and algae on moving or static surfaces. Excellent for immersion usage for hulls, concrete & steel storage tanks, pipes, etc., at 10 to 12-mil Dry Film Thickness (DFT).

Typical applications include below waterline hull coating and all types of tanks and pipes used for chemical storage, crude oil transport, fuel oil storage, or sea-water ballast. **MarineKote II™** exhibits superior fouling-resistant properties to facilitate easy cleaning of ship hulls, barges, 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. **MarineKote II™** epoxy is UV-sensitive and not recommended for use where color-fastness or UV-resistance is essential.

Component Properties

Base Compound:

Appearance Medium Viscosity, Clear or Tinted
Solid Content 80%

Curing Agent

Appearance Clear, Free Flowing Liquid
Solid Content 70%

Application Mix:

Appearance Low viscosity, Clear or Tinted
Solid Content 75%

Mixing & Application Properties

MarineKote II™ is supplied in canned kits containing pre-measured amounts of Base Compound and Curing Agent, which are then mixed thoroughly until completely uniform.

WFT (per coat) 5 to 7-mil
V.O.C. 210 gr/l (1.8 lbs/gal)
"Pot" Life 8-hours at 75°F
"Tack-Free" (re-coat) time 1 to 2-hours at 75°F
"Dry-to-Touch" time 6-hours at 75°F
"Stack" time approx. 20-hours at 75°F
"Cure" time (optimum characteristics) 96-hours at 75°F

Cured Properties

Color Clear & Tinted
Gloss 100
DFT (per coat) 4 to 5-mil
Tensile Strength 9,000 p.s.i.
Flexural Strength 12,000 p.s.i.
Hardness 85 Shore D
Direct Impact Resistance 175 lbs./in.
Salt Spray: 2,500 hours (ASTM B-17) Pass
Vapor Permeability (FedSpec TT-C-535b) Pass
Adhesion:
Steel, Aluminum, Concrete, Etc. Excellent

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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

MarineKote II™ may be applied by brush, roller or standard spray equipment. Thin with 5 - 10% Acetone or M.E.K. for spray application, per separate guidelines.

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

190 sq.ft./gal at 5-mil WFT = 4-mil DFT; two coats = 8-mil DFT = 95 sq.ft./gal.; three coats = 12-mil DFT = 63 sq.ft./gal.

Clean-up

Before **MarineKote II™** cures, equipment and tools may be cleaned with Acetone, M.E.K. or Toluene.

Packaging

2-gallon can kits, 10-gallon pail kits & 55-gallon drums.

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