Madison Chemical Industries Inc.

MARITHANE 1:4 ALIPHATIC

TECHNICAL DATA **YACHT GRADE ACRYLIC MARINE COATING**

THE PRODUCT AND ITS USES

MariThane 1:4 Aliphatic is a high performance hybrid coating (polyurethane cross-linked with acrylic resins). It offers excellent color fastness and gloss retention in both interior and exterior marine applications on steel, wood or concrete. Its enamel-like finish is designed to last for years with little to no maintenance.

MariThane 1:4 Aliphatic is resistant to most aqueous solutions including salt water and dilute acids and alkalies. The product is typically used to coat bulk storage tanks, machinery and equipment and graffitti prone surfaces. It is also ideal for architechtural finishing of concrete or steel.

The product can be used with or without a primer (please check compatibility) or as a top coating over a number of Madison's aromatic polyurethane corrosion protection systems. Consult a Madison representative for details.

TECHNICAL INFORMATION

PROPERTY	TEST DESCRIPTION	RESULTS
Application Temperatures	N/A	0°C(32°F) to 50°C(120°F)
Viscosity	Brookfield Viscometer	Paint-Like
Pot Life	@ 20°C/70°F	1 1/2 - 2 hours
Initial Setting Time	@ 20°C/70°F	120 minutes
Curing Time Before Handling	@ 20°C/70°F	12 hours
Recoat Time*	@ 20°C/70°F	Minimum: 30 minutes Maximum: 24 hours
Solids Content	ASTM D-1259	60 to 65%
Volatile Organic Compounds (VOCs)	ASTM D-2369	Less than 340 grams/litre
Theoretical Coverage	N/A	630 m^2/litre/micron (1040 ft^2/US gallon/mil)
Adhesion to Steel	ASTM D-4541 (SSPC 5)	Greater than 800 p.s.i.
Impact Resistance	ASTM D-2794 (20 mils)	Greater than 80 in.lbs
Ultraviolet Resistance	ASTM G-154	Excellent
Colors		Wide color choice; consult sales representative
Finish		Gloss or Semi-Gloss

*However, recoat window varies depending on the spray equipment temperature setting, the ambient conditions, product temperature/thickness, and the temperature of the substrate being coated.

NOTE: All statements, technical information and recommendations contained herein are typical of results obtained under laboratory conditions and are not intended to be used as contract specifications. For specification guidelines please contact Madison Chemical.

APPLICATION INSTRUCTIONS

CONTACT MADISON FOR DETAILED APPLICATION INSTRUCTIONS.

A. SURFACE PREPARATION

1) Ensure that surface is clean, dry and uncontaminated. Proceed only if the substrate temperature is more than 3°C(5°F) above the dew point temperature during surface preparation and coating application.
2) Abrasive blast clean with sand or grit (G40 or coarser). DO NOT USE steel shot or non-angular media.
   For **steel** surfaces in atmospheric service, blast to a Commercial Blast (SSPC-SP6; NACE 3; SA 2).
   Acid etching or chemical cleaning methods may be appropriate for certain substrates.
   For **top coating** over primer or base coat, apply within recoat window of the primer or base coat. Otherwise, it may be necessary to roughen the base coat using sandpaper.
3) See Madison Application Instructions for details.

B. APPLICATION OF COATING

1) Stir the individual components first. Mix pre-measured 'A' component into 'B' component (1:4 ratio by volume). Stir for 5 minutes to assure homogeneity. Pot life is temperature dependent (see page one).
2) Apply using a brush, roller or conventional single component airless spray equipment (for best results use airless spray).
3) For atmospheric service, the typical application for metal is one coat applied direct to metal (no primer) to a dry film thickness of 5-8 mils (125-200 microns). Maximum recommended wet film build per coat is 15 mils (375 microns). On porous substrates such as concrete or wood, a base coat (see above) is recommended.
4) A second coat may be applied over the first, so long as it is applied within the recoat window. Otherwise, it will be necessary to roughen the surface to ensure good intercoat adhesion.
5) Contact Madison for detailed application instructions.

C. CLEAN-UP AND STORAGE

1) This material will react with humidity and moisture. Keep containers tightly sealed and store upside down. For clean-up, use Madison VR-3 Viscosity Reducer, M.E.K. or a 50:50 blend of M.E.K. and Xylol. Other solvents may react with product.
2) Store between 10°C(50°F) and 27°C(80°F). DO NOT FREEZE. Use product within 6 months of receiving.

HEALTH AND SAFETY

MariThane 1:4 Aliphatic is intended for industrial use only. It contains no monomeric isocyanate but may nevertheless cause respiratory distress in some people. Provide ample ventilation. Wear a fresh air respirator when using in confined areas or when spraying. Wear rubber gloves, safety goggles and protective clothing. If swallowed, DO NOT induce vomiting as this will cause additional throat irritation; contact physician. If splashed on skin, remove immediately with rubbing alcohol and then wash with soap and water. If splashed in eyes, wash liberally with clean water and contact physician; temporary irritation of eyes may last several days. See MSDS for more information. The finished product is completely inert.

LIMITED TWO YEAR WARRANTY

Madison will replace any product which, in service for which it is suitable, fails to meet specifications within two years of sale and which is proven to be defective when applied according to instructions by a Madison Approved Applicator or Certified OEM Applicator. Madison accepts no responsibility or liability for any other loss, claim, damage, injury or expense, direct or consequential, in contract or negligence. This product replacement warranty is in lieu of any other right, warranty, guarantee or condition, statutory or otherwise, expressed or implied, whether as to fitness for a particular purpose or as to merchantable quality or otherwise.

The information contained herein is believed to be accurate as of the date of publication. Madison reserves the right to change product specifications without notice.

Revised July 2007 v02

Phone: 905-878-8863 Fax: 905-878-1449 490 McGeachie Drive, Milton, Ontario Canada L9T 3Y5
e-mail: sales@madisonchemical.com Web: www.madisonchemical.com