



MARITHANE II MULTI

TECHNICAL DATA

MULTI PURPOSE MARINE COATING & LINING

THE PRODUCT AND ITS USES

MariThane II Multi is a 100% solids two component coating designed to protect marine structures against physical and chemical attack.

The product is ideal for use on steel, concrete and other substrates in immersion or atmospheric marine environments. MariThane II Multi offers excellent resistance to cathodic disbondment as well as impact and temperature extremes.

MariThane II Multi (CM) is a ceramic modified version of MariThane II Multi that provides superior abrasion resistance to physical structures that are subject to accelerated wear (anchors, ship hulls, dock moorings).

MariThane II Multi (AM) is a modified version of MariThane II Multi that contains an EPA registered Anti Microbial agent. Although the standard formulation is not susceptible to deterioration by animal fouling, the AM version provides for extended service longevity in marine applications where barnacle infestation and hyperactive microbial behaviour contribute to accelerated corrosion.

APPROVALS AND LISTINGS

Underwriters Laboratories: **UL 1746 (part I, II and IV), UL 2215**, Steel Tank Institute : **STI-P3, ACT-100, ACT-100-U**

TECHNICAL INFORMATION

PROPERTY	TEST DESCRIPTION	RESULTS
Application Temperatures	N/A	-20°C(0°F) to 65°C(150°F)
Initial Setting Time	@ 20°C/70°F	Three choices from 1 to 30 minutes
Curing Time Before Handling	@ 20°C/70°F	Three times initial set time
Ultimate Cure	@ 20°C/70°F	7 days
Recoat Time*	@ 20°C/70°F	Within 45 minutes
Solids Content	ASTM D-1259	99 +/- 1%
Volatile Organic Compounds (VOCs)	ASTM D-2369	Less than 13.25 grams/litre (0.11 lbs/US gal)
Theoretical coverage	N/A	1016m ² /litre/micron (1604 ft ² /US gal/mil)
Adhesion to steel	ASTM D-4541 (SSPC 5)	Greater than 2000 p.s.i.
Adhesion to concrete	ASTM D-4541	Greater than cohesive strength of concrete
Hardness	ASTM D-2240 Shore D	70 +/- 5
Flexibility	ASTM D-522 (20 mils)	180° over a 1" mandrel
Abrasion Resistance	ASTM D-4060 (CS-17 wheels, 1 kgs weights, 1000 revolutions)	75 mg loss (standard version) 25 mg loss (CM version)
Resistance to Cathodic Disbondment	CSA Z-245 (65°C, 48 hours, 20 mils)	Excellent; 12 mm average radius
Ultraviolet Resistance	ASTM G-154	Will chalk and darken
Temperature Resistance	ASTM D-870, ASTM D-2485	-40°C(-40°F) to 60°C(140°F) Wet -40°C(-40°F) to 90°C(195°F) Dry
Colors		Approximately 20 choices

*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, blast to a Near White Blast (SSPC-SP10; NACE 2; SA 2.5):
 - minimum 3.0 mil (75 microns) profile for immersion;
 - minimum 2.5 mil (65 microns) profile for buried;
 - minimum 2.0 mil (50 microns) profile for atmospheric service.For **concrete** surfaces, abrasive blast to remove any laitance.
- 3) See Madison Application Instructions for details.

B. APPLICATION OF COATING

- 1) Roll or agitate individual components thoroughly before use to disperse pigments and assure homogeneity. Do not thin. Do not mix "A" and "B" together.
- 2) Spray apply using a plural component, 1:1 mix ratio, heated airless spray unit.
- 3) Unlimited film thickness can be obtained in one continuous coating operation, using one of several techniques. Typical applied thickness is 15 mils (375 microns) as per SSPC PA2. Contact Madison for detailed instructions.
- 4) A second coat may be applied over the first, if it is applied within the recoat window. Otherwise, it may be necessary to roughen the surface to ensure good intercoat adhesion.
- 5) Allow coating to cure completely before putting into service. Follow decontamination procedure to remove any dirt and debris.

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-1 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 II Multi is intended for industrial use only. It contains no monomeric isocyanates 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. Contains trace amounts of ingredients which may cause skin cancer following prolonged direct skin contact. Therefore commonly used skin protection is recommended. 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
World Leader for Infrastructural Coatings™