



CORROCOTE II HYDROTHANE

TECHNICAL DATA HYDROCARBON EXTENDED POLYURETHANE COATING/LINING SYSTEM

THE PRODUCT AND ITS USES

HydroThane II makes coal tar epoxy obsolete. Corrosion resistant and solvent-free, HydroThane II is a liquid-applied plastic coating that offers a superior level of all-round long-term protection at an extremely competitive price. HydroThane is non-flammable, contains no amines, coal tar, styrene, isocyanate monomer or ketones and almost no VOCs. The finished product offers incredible resistance to corrosive environments, including continuous aqueous immersion, and outperforms coal tar epoxy on virtually every level. The finished product is extremely hydrophobic and low in cost, thanks to the incorporation of a Hydrophobic Aromatic Polymer (H.A.P.) blend that is exclusive to Madison.

HydroThane II requires no primer, sets in minutes (even at sub zero temperatures), and can be applied in a single coat. The product is applied using two component, 1:1 heated airless spray equipment.

Corrocote II Hydrothane can be used in virtually any application and/or any substrate when coal tar epoxy might otherwise be used. It offers double the adhesion, impact and abrasion resistance, along with superior resistance to chemicals, cathodic disbondment and other corrosive forces.

TECHNICAL INFORMATION

PROPERTY	TEST DESCRIPTION	RESULTS
Application Temperatures	N/A	-40°C(-40° F) to 65°C(150°F)
Initial Setting Time	@ 20°C/70°F	15 minutes
Curing Time Before Handling	@ 20°C/70°F	45 minutes
Ultimate Cure	@ 20°C/70°F	5-7 days
Recoat Time	@ 20°C/70°F	Up to 3 hours
Solids Content	ASTM D-1259	98+/-2%
Volatile Organic Compounds (VOCs)	ASTM D-2369	12 grams/litre (0.105 lbs/gal)
Theoretical coverage	N/A	995m ² /litre/micron (1580ft ² /US gallon/mil)
Adhesion to steel	ASTM D-4541 (SSPC -SP5)	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 (15 mils)	180° over 1" mandril
Abrasion Resistance	ASTM D-4060 (Taber CS-17)	80 mg loss @ 1kg, per 1000 cycles (standard version) 20 mg loss (CM version)
Permeability	ASTM E-96B @ 15 mils	(non-breathing) 0.005 perm inches
Resistance to Cathodic Disbondment	ASTM G-8 (STP, 28 days 20 mils)	Excellent, less than 10 mm radius
Chemical Resistance	ASTM D-543	Good, See Chemical Resistance Chart
Ultraviolet Resistance	ASTM G-53	Will chalk and darken
Service Temperature	ASTM D-870, ASTM D-2485	-40°C(-40° F) to 60°C(140°F)
Standard Color		Black
Optional Color		Mid Brown

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 an angular media (sand, slag, steel 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. A rendering material may be required to fill in any visible holes or cracks in the concrete surface.
- 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, so long as it is applied within the recoat window. Otherwise, roughening of the surface will be necessary to ensure good intercoat adhesion.
- 5) Allow coating to cure completely before putting structure into service. Follow decontamination procedure to remove any dirt and debris.
- 6) See Madison Application Instructions for details.

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

Corrocote II HydroThane 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 consequential damage, injury or expense 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 Sept. 2003



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™