



CORROPIPE II WASTELINER

TECHNICAL DATA

PROTECTIVE LINING FOR EFFLUENT PIPELINES

THE PRODUCT AND ITS USES

CorroPipe II WasteLiner is a two-component polyurethane coating specially formulated for use as an economical protective lining for the interior of pipelines carrying aqueous effluent and non-potable water. The finished product forms a structural (rigid yet flexible) film which has the appearance of a sheet of plastic fusion bonded to the substrate.

CorroPipe II WasteLiner offers the Applicator many advantages; near-zero VOCs, non-flammable, high build, no primer required, one coat, no amines or styrenes, no isocyanate monomers, no coal tar, and rapid cure, even at sub-freezing temperatures. Typically, it is applied using a two-component plural spray pump. CorroPipe II WasteLiner offers the specifier and end user many years of total protection against the harsh conditions found in a sewer, waste or effluent line. The finished product is extremely hydrophobic and bonds tenaciously to concrete, ductile iron and steel pipe. For solvent immersion or continuous temperatures above 60°C (140°F), use CorroPipe II UltraLiner, and for drinking water, specify CorroPipe II PW.

CorroPipe II WasteLiner (CM) is a ceramic modified version of CorroPipe II WasteLiner that offers excellent abrasion resistance – ideal for highly abrasive or high flow applications.

CorroPipe II WasteLiner (AM) is a modified version of CorroPipe II WasteLiner that contains an EPA registered Anti-Microbial agent. Although the standard formulation is not susceptible to bacterial attack, CorroPipe II WasteLiner (AM) provides for extended service life in sewer environments.

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 | fast set (3 minutes) medium set (12 - 15 minutes) |
| Curing Time Before Handling | @ 20°C/70°F | 3 times initial set time |
| Curing Time Before Immersion | @ 20°C/70°F | 48 hours |
| Ultimate Cure | @ 20°C/70°F | 7 days |
| Recoat Time* | @ 20°C/70°F | up to 45 minutes |
| Solids Content | ASTM D-1259 | 98+/-2% |
| Volatile Organic Compounds (VOCs) | ASTM D-2369 | Less than 12 grams/litre |
| Theoretical coverage | N/A | 995m ² /litre/micron (1580ft ² /US gallon/mil) |
| Adhesion to steel | ASTM D-4541 (SSPC 10) | Greater than 2000 p.s.i. |
| Adhesion to concrete | ASTM D-4541 | Exceeds cohesive strength of concrete |
| Hardness | ASTM D-2240 Shore D | 70+/-5 |
| Flexibility | ASTM D-522 | 180° over 1" mandrel |
| Abrasion Resistance | ASTM D-4060 (CS-17 wheels, 1 kgs weights, 1000 revolutions) | 80 mg loss (standard version) 20-65 mg loss (CM version) |
| Permeability | ASTM E-96 (20 mils) | 0.005 perm inches |
| Resistance to Cathodic Disbondment | CSA Z-245 (65°C, 48 hours, 20 mils) | Excellent, less than 10 mm radius |
| Chemical Resistance | ASTM D-543 | Excellent; see Chemical Resistance Chart |
| Colors | | Black, Brown |

*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 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 **ductile iron** surfaces, abrasive blast to achieve a surface anchor profile of 2.5 mils or greater. Remove all rust and loose oxides.
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. 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, it will be necessary to roughen the surface to ensure good intercoat adhesion.

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

CorroPipe II WasteLiner 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 that may cause skin cancer after prolonged direct skin contact. Therefore, commonly used skin protection is recommended. See MSDS for more information. The finished product is totally inert and harmless.

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.

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