

100% Solids Epoxy
Lining System for
Water

DESCRIPTION:

A three part, highly thixotropic epoxy system formulated for spraying with Warren Environmental, Inc.'s patented meter/mix spray equipment.

CHARACTERISTICS:

Formulated with special additives and modifiers to enhance the water resistance, chemical resistance, and bond strength to a variety of substrates as well as its own internal strength. BPA free.

APPLICATION:

Designed for use with Warren Environmental's patented meter, mix and spray equipment. The epoxy component utilizes a 3 parts base to 1 part activator mix ratio by volume. This product is sold and installed only by technicians specifically trained and licensed in our patented techniques.

CERTIFICATION:

Water Quality Labs:
Certified to Standard NSF/ANSI-61

Approved for use as a potable water pipe lining with or without carbon fiber and/or S glass

@125 mil to pipe sizes 3" 7"
@500 mil to pipe sizes 4"

SPECIAL SAFETY AND HANDLING:

There are no special safety or handling procedures beyond those published on the Safety Data Sheets.

100% Solids

0% VOC's

**Ready-to-Use
(DO NOT THIN)**

Three Component

**Spray/mix with Warren
Environmental patented
system ONLY**

**For use with/in Potable
water systems
(NSF/ANSI 61)**

**Safe for Aquatic life (ASTM
E729)**

**Adheres to a variety of
substrates**

**Adheres well to dry or wet
substrate**

**Tested for use with or
without structural glass
and/or carbon fiber**

**Long Working Time
Relative to cure time**

**Excellent Water and
Chemical resistance with
ambient cure**

**Achieve high-build
thicknesses without sag**

Liquid Properties

Viscosity	4900 cps
Thixotropic Index	2.00 to 1.00
Specific Gravity	1.14
Flash Point (Closed cup)	>235 F
Color	
Geltime (200g@77°F)	45 minutes
Thin Film Set (@ 70°F)	90 minutes
Thin Film Set (@ 40°F)	350 minutes

Physical Properties (1/8" Casting)

Tensile Strength (ASTM D638-86)	7,040
Flexural Strength (ASTM D790-86)	14,563
Flexural Modulus @0.100" (ASTM D790-86)	514,850
Compressive Strength (ASTM D695-85)	14,582
Glass Transition Temperature (ASTM D3418-82)	62.68 C
Tensile Elongation @ Break	7.9
Thin Film Set (@70°F)	90 minutes
Shore D Hardness	85

Chemical Resistance

Chemical	Weight Gain (%)
Toluene	.99
Ethanol	4.68
10% Acetic Acid	3.85
70% Sulfuric Acid	.13
50% Sodium Hydroxide	.09
Distilled Water	1.11
Methanol	9.55
Xylene	.69
Butyl Cellosolve	1.18
Methyl Ethyl Ketone	11.19
10% Lactic Acid	3.24
Bleach	.93
1,1,1 Trichloroethane	.43
10% Nitric Acid	2.05
30% Nitric Acid	4.13

Contact us at:
316 W WOLFGER BOS

Tel. (508) 947-8539
www.warrenenviro.com

All values reported above are typical values, and are reported as a means of reference. Individual testing should be done to determine actual results, tested at specific conditions.

THREE-PART EPOXY COATINGS:

Supplied in 50 gallon steel drums. The unmixed shelf life is one (1) year from date of purchase when stored indoors in their sealed original containers at a room temperature between 60°F and 80°F. When using this material, it is important to prevent cross contamination of the unused components. To assure proper performance, it is mandatory that the components be correctly identified and the mix ratio cited on the front of this bulletin be strictly followed.

CURED IN-PLACE PIPLINING SYSTEMS: this patented system may be provided in several different methodologies depending upon the application and field conditions. Warren Environmental, Inc. requires that these materials be installed by our licensed applicators only. These people are trained by us to address the issues unique to each situation. For more information please contact us.

GENERAL SURFACE PREPARATION GUIDELINES**WARRANTY**

Warren Environmental warrants only that the product meets that quality and technical standards published in its current literature. Warren Environmental, Inc. cannot be held responsible for circumstances outside of its control including, but not limited to: product application, product handling, product storage, or any other conditions outside of our control. If within one (1) year from date of purchase, any product is proven by accepted industry standard test methods to be defective Warren Environmental, Inc. will, at its sole option, either replace or refund the purchase price of the product. These remedies shall constitute the sole and exclusive remedy for any claim under this warranty. This warranty is in lieu of any other warranties, expressed, implied, or statutory and is strictly limited to its

Warren Environmental, Inc. will provide cost-effective coatings and methodologies that lead to permanent time-sensitive solutions meeting the structural rehabilitation needs of their customers. To this end, we pledge to use environmentally friendly materials, train and certify the people installing our products,

The information or recommendations contained herein are based on standard product and are proprietary and are furnished solely for the use of our customers. This information is provided in good faith and believed to be true and accurate as of the date shown below. However, since we have no control over the use conditions or processes of parties using the product, Warren Environmental cannot accept responsibility for loss, injury, or other damages resulting from the use of the product or this or any other information provided by us. Therefore, no guarantees of any kind expressed or implied, are made by Warren Environmental with regard to any of our products. Users are advised to perform their own tests and hazard assessments to determine the safety, suitability, and relevance of applicable law to the product as it is used by them

Contact us at:

137 Pine Street - Middleboro, MA 02346

Tel. (508) 947-8539
www.warrenenviro.com

All values reported above are typical values, and are reported as a means of reference. Individual testing should be done to determine actual results, tested at specific conditions.