

A BPA free epoxy coating offering high performing characteristics to overcome issues with corrosion, microbial attack, sewer gases, and abrasion.

PRODUCT DESCRIPTION

Since our inception, we've focused on manufacturing products that protect our nation's infrastructure, the environment, and the people who use them. Our 501-02 aligns with that focus and serves as one of the first BPA free epoxy products in the industry.

FEATURE	BENEFIT
BPA FREE	Removes the risk of adverse health effects
NSF/ANSI/CAN 61 CERTIFIED PRODUCT	Safe for potable water contact allowing for versatility in assets that can be protected or rehabilitated
AQUATIC SAFE	Independently tested per EPA 2007.0 to ensure no adverse impacts on aquatic life
ZERO VOC & STYRENE-FREE	Safe for workers, the community, and the environment
HIGHLY ADHESIVE	Intimately bonds to host structure to prevent damage to substrate
100% SOLIDS	Non-explosive, non-flammable, more reliable cure, higher quality and performance
SINGLE COAT UP	Eliminates the risk of coating interface delamination, reduces the cost of resurfacing the substrate, eliminates the need for underlayment, and underlayment waiting period
CORROSION RESISTANT	Stands up to harsh chemical exposures and highly corrosive environments
RESISTANT TO GROUNDWATER PRESSURE	Prevents infiltration - reducing the costly treatment of rain and groundwater
STRUCTURAL RESTORATION AND ENHANCEMENT	Capable of strengthening assets to an improved or like new condition
MULTIPLE VISCOSITIES	Viscosity based on desired dry film thickness (DFT) to achieve one coat high build without sagging
APPLY IN 100% HUMIDITY AND ON A DAMP CONCRETE	Reduced labor cost - eliminates dehumidification expenses and puts the asset back in service faster

APPLICATION SYSTEM

Warren epoxy products are applied by a patented heated meter/mix plural-component spray, trowel, brush, pour and squeegee. Warren Environmental products are applied by trained/approved applicators.

CERTIFICATIONS

This product has been tested and certified by WQA against NSF/ANSI/CAN 61

≥ 450 gal. tanks and ≥ 2"-120" pipes

Safe for aquatic life per EPA 2007.0

Approved for use as a potable water pipe lining at nominal pipe sizes:

40 – 80 mils to pipe sizes ≥ 2" – 3.5"

60 – 120 mils to pipe sizes ≥ 4" – 8"

120 – 250 mils for pipe sizes ≥ 9" – 120"



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STORAGE AND USE

EPOXY COATINGS

Shelf life is one year from the date of shipment. Materials are to be kept dry, protected from weather, stored under cover, and stored between 33°F and 120°F. Do not store near flame or heat.

RETURN TO SERVICE

After installation wait until epoxy is cured to touch, then 1 hour flush the system with clean water. Certified for use on pipes intended for immediately return to service.

SPECIAL SAFETY AND HANDLING

Components are hazardous materials before being mixed. Consult the corresponding Safety Data Sheets before using.

SURFACE PREPARATION GUIDELINES

Concrete: SSPC-SP 13/NACE No. 6 with a clean substrate profile of CSP 4-6 per ICRI No. 310.2R-2013

Steel: SSPC-SP 10/NACE No. 2 Near White Blast Cleaning. A minimum angular profile of 3-5 mils.

Ductile or Cast-Iron: NAPF 500-03, Solvent, Hand Tool, Power Tool, and or Abrasive Blast to remove all oil, grease, asphalt, cement or other loosely adherent deleterious contaminants and achieve a minimum angular surface profile of 3-5 mils. Tightly adherent annealing oxide can remain.

Contact Warren for other substrates.

TYPICAL PROPERTIES

LIQUID PROPERTIES

Viscosity	4900 cps
Thixotropic Index	2.00 - 1.00
Specific Gravity (overall/combined 1.18)	Part A (1.25) / Part B (1.0167)
Flash Point (Closed cup)	>235°F
Color	
Geltime (200g@77°F)	45 minutes
Thin Film Set (@ 77°F)	90 minutes
Thin Film Set (@ 40°F)	350 minutes

PHYSICAL PROPERTIES

Color	Off white
Tensile Strength (ASTM D638)	4,246 psi
Flexural Strength (ASTM D790)	6,023 psi
Flexural Modulus @0.100" (ASTM D790)	386,174 psi
Compressive Strength (ASTM D695)	7,763 psi
Glass Transition Temperature (ASTM D3418)	151°F
Tensile Elongation @ Break	3.6%
Shore D Hardness	87
VOC	0 g/L (EPA Method 24)

WARRANTY

Warren typically offers a one year warranty. Additional information will be provided upon request.

DISCLAIMERS

Always read associated Safety Data Sheets (SDS) before working with any product. SDS can be requested by calling our office at **508.947.8539** or emailing us at info@warrenenviro.com. All values reported within this document are typical values and are reported as a means of reference. Individual testing should be done to determine actual results, tested in specific conditions. If you witness unethical or incorrect practices related to the use or application of any Warren Environmental product, please contact us immediately **508.947.8539**.

ISO 9001

Warren Environmental is a ISO 9001:2015 certified company.

