



# 301-01

## Solvent-free, high build epoxy series certified safe for potable water systems.

### PRODUCT DESCRIPTION



We hold ourselves to the highest standards without exception and this is reflected in our products. Our 301 series meet all of the following criteria:

FEATURE	BENEFIT
APPLY IN 100% HUMIDITY AND ON A DAMP CONCRETE	Reduced labor cost - eliminates dehumidification expenses and puts the asset back in service faster
SINGLE COAT UP TO 500 MILS	Eliminates the risk of coating interface delamination, reduces the cost of resurfacing the substrate, eliminates the need for underlayment, and underlayment waiting period
100% SOLIDS	Non-explosive, non-flammable, more reliable cure, higher quality and performance
ZERO VOC & STYRENE FREE	Safe for workers, the community, and the environment
STRUCTURAL RESTORATION AND ENHANCEMENT	Capable of strengthening assets to an improved or like new condition
AQUATIC SAFE	Independently tested per EPA 2007.0 to ensure no adverse impacts on aquatic life
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
HIGHLY ADHESIVE	Intimately bonds to host structure to prevent damage to substrate
MULTIPLE VISCOSITIES	Viscosity based on desired dry film thickness (DFT) to achieve one coat high build without sagging

### 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.

### SPECIAL SAFETY AND HANDLING



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

### CERTIFICATIONS

This product has been tested and certified by WQA against NSF/ANSI/CAN 61 up to 500 mils on  $\geq 1,000$  gal. tanks and  $\geq 6$  inch pipes

This product has been tested and certified by NSF against NSF/ANSI/CAN 61 up to 115 mils on  $\geq 1,000$  gal. tanks and  $\geq 36$  inch pipe

Safe for aquatic life per EPA 2007.0



### 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 immediate return to service.

### 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.

### CURE TIMES

SURFACE TEMPERATURE	DRY TO HANDLE	CURE FOR WATER IMMERSION
50°F (10°C)	8 HOURS	48 HOURS
70°F (21°C)	2 HOURS	36 HOURS
90°F (32°C)	1.5 HOURS	24 HOURS

## TYPICAL PROPERTIES BASED ON #2 VISCOSITY

### LIQUID PROPERTIES

Viscosity	90,000-120,000cps
Thixotropic Index	5.0 - 6.0
Specific Gravity	B:1.1328 A:1.20 A/B:1.18 A/B:1.173
Flash Point (Closed cup)	>235°F
Color	Varies
Geltime (200g@77°F)	27 minutes
Thin Film Set (@ 77°F)	2 hours
Thin Film Set (@ 40°F)	8 hours

### PHYSICAL PROPERTIES (1/4" CASTING)

Tensile Strength (ASTM D638)	7,500 psi
Flexural Strength (ASTM D790)	11,000 psi
Flexural Modulus @0.100" (ASTM D790)	410,000 psi
Compressive Strength (ASTM D695)	8,800 psi
Glass Transition Temperature (ASTM D3418)	151°F
Tensile Elongation @ Break	7%
Shore D Hardness	83-85
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](mailto: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.



### VISCOSITIES

### DFT (mils)

<b>301-01-0</b> = Primer (P)	10 - 20
<b>301-01-1</b> = Top Coat (T)	20 - 50
<b>301-01-2</b> = Number 2 (#2)	50 - 175
<b>301-01-3</b> = Extra Thick (XT)	175 - 300
<b>301-01-4</b> = Full Slug (FS)	300 - 500
<b>301-01-5</b> = Mastic (M)	125 - >1,000

1,000 mils = 1 inch

\*Not all viscosities are certified for potable water.