

301-01

NSF APPROVED
100% SOLIDS EPOXY
TECHNICAL DATA



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 / BENEFITS

APPLY IN 100% HUMIDITY AND ON DAMP CONCRETE: Reduced labour 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 (VOLATILE ORGANIC COMPOUNDS) AND 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

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

📦 STORAGE AND USE

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.

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-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 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

🏆 CERTIFICATIONS



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

Up to 500 mils on: ≥ 1,000 gal. tanks and ≥ 4 inch pipes

Safe for aquatic life per EPA 2007.0

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TYPICAL PROPERTIES

LIQUID PROPERTIES

Viscosity	90,000 - 120,000 cps
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@70°F)	27 minutes
Thin Film Set (@70°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 (ASTM D790)	425,000 psi
Compressive Strength (ASTM D695)	10,500 psi
Glass Transition Temperature (ASTM D3418)	151°F
Tensile Elongation @ Break	7%
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 at **508.947.8539**.

VISCOSITIES

DFT (MILS)

301-14-0 = PRIMER (P)	10 - 20
301-14-1 = TOP COAT (T)	20 - 50
301-14-2 = NUMBER 2 (#2)	50 - 175
301-14-3 = EXTRA THICK (XT)	175 - 300
301-14-4 = FULL SLUG (FS)	300 - 500
301-14-5 = MASTIC (M)	125 - >1,000

1,000 MILS = 1 INCH

*NOT ALL VISCOSITIES ARE CERTIFIED FOR POTABLE WATER.

 **ISO 9001**

Warren Environmental is a ISO 9001:2015 certified company.