

Specially formulated epoxy offering the benefits of our 301-14 series but with faster cure times.

PRODUCT CRITERIA

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

FEATURE	BENEFIT
RAPID CURE TIMES	Allows for rapid return to service of the asset and minimizes downtime.
APPLY IN 100% HUMIDITY AND ON A DAMP SUBSTRATE	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	Safe for workers, the community, and the environment
STRUCTURAL RESTORATION AND ENHANCEMENT	Capable of strengthening assets to an improved or like new condition
CORROSION RESISTANT	Stands up to harsh chemical exposures and highly corrosive environments
RESISTANT TO HYDROSTATIC PRESSURE	Stays adhered and prevents infiltration - reducing the costly treatment of rain and groundwater
HIGHLY ADHESIVE	Intimately bonds to host, leaving no annular space in which further corrosive activity or water inflow may continue

APPLICATION SYSTEM

Designed for use with Warren Environmental's patented meter, mix, and spray equipment. The epoxy system utilizes a two-part base to one-part activator mix ratio by volume. This product is sold and installed only by approved applicators specially trained in our patented techniques. The product is ready to use. **Do not thin.**

SPECIAL SAFETY AND HANDLING

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

STORAGE AND USE

EPOXY COATINGS

Are supplied in 50-gallon steel drums. The unmixed shelf life is one year from date of purchase when stored indoors in their sealed original containers at 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 provided within this document be strictly followed.

SURFACE PREPARATION GUIDELINES

The means of achieving and verifying the following conditions are outlined in the project specification. Project specifications are unique and specific to each project and take precedence over the generalized requirements listed below.

Concrete surfaces to be coated must be:

- › Free of loose or damaged concrete
- › Free of any laitance
- › Free of standing water
- › Free of active leaks
- › Thoroughly cleaned
- › Thoroughly rinsed

Metallic surfaces to be coated must be:

- › Free of any loose or damaged surfaces
- › Free of any rust or corrosion
- › Free of standing water
- › Free of active leaks
- › Cleaned to relevant SSPC/NACE standard as outlined in the specification
- › Profiled to depth outlined in the specification



301-QI

TYPICAL PROPERTIES BASED ON #2 VISCOSITY

LIQUID PROPERTIES		CHEMICAL RESISTANCE (28 DAY IMMERSION)	
		CHEMICAL	WEIGHT GAIN (%)
Viscosity	90,000-120,000cps	Toluene	0.99
Thixotropic Index	5.0 - 6.0	Ethanol	4.68
Specific Gravity	1.143	10% Acetic Acid	3.85
Flash Point (Closed cup)	>235°F	70% Sulfuric Acid	0.13
Color	Varies	50% Sodium Hydroxide	0.09
Geltime (200g@77°F)	27 minutes	Distilled Water	1.11
Thin Film Set (@ 77°F)	2 hours	Methanol	9.55
Thin Film Set (@ 40°F)	8 hours	Xylene	0.69
PHYSICAL PROPERTIES (1/8" CASTING)		Butyl Cellosolve	1.18
		Methyl Ethyl Ketone	11.19
Tensile Strength (ASTM D638-86)	7000 psi	10% Lactic Acid	3.24
Flexural Strength (ASTM D790-86)	10,000 psi	Bleach	0.93
Flexural Modulus @0.100" (ASTM D790-86)	410,000 psi	1,1,1 Trichloroethane	0.43
Compressive Strength (ASTM D695-85)	10,000 psi	10% Nitric Acid	2.05
Glass Transition Temperature (ASTM D3418-82)	151° F	30% Nitric Acid	4.17
Tensile Elongation @ Break	4.8%	All values reported within this document are typical values and are reported as a means of reference. Characteristics may differ depending upon variables including mixing method, equipment, material temperature, application method, test methods, site conditions, surface preparation, environmental conditions, etc. Individual testing should be done to determine actual results, tested in specific application conditions.	
Thin Film Set (@77°F)	2 hours		
Shore D Hardness	83-85		

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.

