

301-QI

QUICK INVERT
100% SOLIDS EPOXY SYSTEM
TECHNICAL DATA



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

★ PRODUCT DESCRIPTION

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

FEATURE / BENEFITS

RAPID CURE TIMES: Allows for rapid return to service of the asset and minimizes downtime.

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 line new condition

CORROSION RESISTANT: Stands up to harsh chemical exposures and highly corrosive environments

RESISTANT TO HYDROSTATIC PRESSURE: Prevents infiltration - reducing the costly treatment of rain and groundwater

HIGHLY ADHESIVE: Intimately bonds to host structure to prevent damage to substrate

🌀 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.**

📦 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 surface 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 surface 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

⚠️ SPECIAL SAFETY AND HANDLING

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

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TYPICAL PROPERTIES BASED ON #2 VISCOSITY

LIQUID PROPERTIES

Viscosity	90,000-120,000 cps
Thixotropic Index	5.0 - 6.0
Specific Gravity (overall/combined 1.18)	1.143
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 (1/8" CASTING)

Tensile Strength (ASTM D638)	7,000 psi
Flexural Strength (ASTM D790)	10,000 psi
Flexural Modulus (ASTM D790)	410,000 psi
Compressive Strength (ASTM D695)	10,000 psi
Glass Transition Temperature (ASTM D3418)	151°F
Tensile Elongation @ Break	4.8%
Thin Film Set (@77°F)	2 hours
Shore D Hardness	83-85

CHEMICAL RESISTANCE (28 DAY IMMERSION)

CHEMICAL	WEIGHT GAIN (%)
Toluene	0.99
Ethanol	4.68
10% Acetic Acid	3.85
70% Sulfuric Acid	0.13
50% Sodium Hydroxide	0.09
Distilled Water	1.11
Methanol	9.55
Xylene	0.69
Butyl Cellosolve	1.18
Methyl Ethyl Ketone	11.19
10% Lactic Acid	3.24
Bleach	0.93
1, 1, 1 Trichloroethane	0.43
10% Nitric Acid	2.05
30% Nitric Acid	4.17

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.

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**.

WARRANTY

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



Warren Environmental is a ISO 9001:2015 certified company.