# 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.** 

#### **Ճ 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 stictly 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

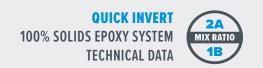
### SPECIAL SAFETY AND HANDLING

LAST REVISED: 12.06.23

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



# 301-QI



TYPICAL PROPERTIES BASED ON #2 VISCOSITY			
LIQUID PROPERTIES		CHEMICAL RESISTANCE (28 DAY IMMERSION)	
Viscosity	90,000-120,000 cps	CHEMICAL	WEIGHT GAIN (%)
Thixotropic Index	5.0 - 6.0	Toluene	0.99
Specific Gravity (overall/combined 1.18)	1.143	Ethanol	4.68
Flash Point (Closed cup)	>235°F	10% Acetic Acid	3.85
Color	Varies	70% Sulfiric Acid	0.13
Geltime (200g@70°F)	27 minutes	50% Sodium Hydroxide	0.09
Thin Film Set (@70°F)	2 hours	Distilled Water	1.11
		Methanol	9.55
Thin Film Set (@40°F)	8 hours	Xylene	0.69
PHYSICAL PROPERTIES (1/8" CASTING)		Butyl Cellosolve	1.18
	7000	Methyl Ethyl Ketone	11.19
Tensile Strength (ASTM D638)	7,000 psi	10% Lactic Acid	3.24
Flexural Strength (ASTM D790)	10,000 psi	Bleach	0.93
Flexural Modulus (ASTM D790)	410,000 psi	1, 1, 1 Trichloroethane	0.43
Compressive Strength (ASTM D695)	10,000 psi	10% Nitric Acid	2.05
Glass Transition Temperature (ASTM D3418)	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		

# **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.



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Warren Environmental is a ISO 9001:2015 certified company.

