



Certified Applicators  
of Non Toxic No Dig  
Restoration Systems

# Warren Environmental, Inc.

## M-301 Epoxy Trowel-On Mastic System Product Code 301-18

**DESCRIPTION:** A two part, highly thixotropic epoxy system formulated specifically for trowel-on applications.

**CHARACTERISTICS:** Formulated with special additives and modifiers to enhance the water resistance, chemical resistance, and bond strength to a variety of substrates as well as its own internal strength. The high thixotropic index allows for build-ups of up to 3/4" on vertical surfaces without sag..

**APPLICATION:** Designed to be applied to a clean surface free of standing water with a notched (toothed) trowel similar to stucco. Alternately, it may be applied using heated tanks, heated lines and Warren Environmental's patented meter, mix and spray equipment. This epoxy system utilizes a 2 parts base to 1 part activator mix ratio by volume. This product is sold and installed only by technicians specifically trained and licensed in our patented techniques.

**ADVANTAGES:**

- % Fast Cure
- % Excellent Cure at Low Temperature
- % Excellent Cure at High Humidity
- % Zero Induction Time
- % 0% VOC's
- % 100% Solids
- % Ready-to-Use (No Thinning Required)
- % Excellent Water and Chemical resistance with ambient cure
- % Achieve high-build thicknesses without sag

**SPECIAL SAFETY AND HANDLING:** There are no special safety or handling procedures beyond those published on the reverse and the Material Safety Data Sheets.

### Typical Properties

#### Liquid Properties (Systems)

Viscosity	150,000-250,00 cps
Thixotropic Index	5.5-7.0
Specific Gravity	1.292
Flash Point (Closed Cup)	>235°F
Color	Varies
Gettime (200g@77°F)	40 minutes
Thin Film Set (@ 77°F)	2 hours
Thin Film Set (@ 40°F)	8 hours

#### Physical Properties

(1/8" Casting)

Tensile Strength (ASTM D638-86)	7000 psi
Flexural Strength (ASTM D790-86)	11,000 psi
Flexural Modulus @ 0.100" (ASTM D790-86)	500,000 psi
Compressive Strength (ASTM D695-85)	12,000 psi
Glass Transition Temperature (ASTM D3418-82)	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

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All values reported above are typical values, and are reported as a means of reference. Individual testing should be done to determine actual results, tested at specific conditions.