

301-FR Flame Resistant System

DESCRIPTION:

A two part, flame resistant thixotropic epoxy system formulated for spraying with Warren Environmental, Inc.'s patented meter/mix spray equipment.

CHARACTERISTICS:

Formulated with special additives and modifiers to enhance the water resistance, chemical resistance, flame resistance, and bond strength to a variety of substrates as well as its own internal strength. The high thixotropic index allows for up to a 1/4" build-up on vertical surfaces without sag.

APPLICATION:

Designed for use with Warren Environmental's patented meter, mix and spray equipment. The epoxy component 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:

- ♦ Excellent Cure at Low Temperature Excellent
- ♦ Cure at High Humidity
- ♦ Zero Induction Time
- ♦ 0% VOC's
- ♦ 100% Solids
- ♦ Long Working Time Relative to Cure Time
- ♦ 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	90,000-120,000 cps
Thixotropic Index	5.0-6.0
Specific Gravity	1.53
Flash Point (Closed Cup)	>235°F
Color	Varies
Geltime (200g@77°F)	27 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"	400,000 psi
(ASTM D790-86)	
Compressive Strength	12,000 psi
(ASTM D695-85)	
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 above are typical values and are reported as a means of reference.