SUPERSKINSYSTEMS

JET EPOXY

Two-Component 100% Solids Epoxy

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

Jet Epoxy is a quick set 100% solids self-leveling toughened epoxy. It provides excellent adhesive characteristics while exhibiting good chemical, moisture and UV resistance. This two-component epoxy system finishes glossy smooth when fully cured. It can be used as a primer or as a final top-coat. It may be used in confined areas as it emits very low odor emissions. This material is used on metal, wood, fiberglass, concrete, masonry and other difficult to coat surfaces requiring a tough exterior coating. It may also be formulated with anti-corrosion additives to protect ferrous metals from oxidation. Jet Epoxy retains a wide functional temperature range while yielding good flexibility from 25°F to 150°F. Full cure is achieved within 24 hours under normal drying conditions.

Jet Epoxy is available in 3 primary formulations:
289: Clear and Fast
351: Low Temperature Fast Cure
319: Clear Slow Topcoat

Jet Epoxy PHYSICAL PROPERTIES

Flex Modulus	ASTM D624	450k psi
Hardness (Shore D)	ASTM D785	80
Tensile Strength	ASTM D412	8610 psi
Elongation	ASTM D412	15%
Heat Deflection Temperature	ASTM D648	145° F
Taber Abrasion CS18	ASTM D4060	80

Mix Ratio	PBV	1A (Hardener) – 2B (Resin)

ADHESION RESULTS

Typical Substrates per ASTM D-4541 Elcometer		
Concrete – Clean	>300 psi	Cohesive failure; excellent bonding
Steel – Clean	>1000 psi	Excellent bonding
Wood – Dry/Dust Free	>250 psi	Wood failure; excellent bonding

HEALTH AND SAFETY

Read the Safety Data Sheet (SDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

TECHNICAL APPLICATION DATA

Jet Epoxy may be apllied using pressure pot or air-less spray, roll-on or brush-on. Jet Epoxy is to be used directly on clean dry surfaces and becomes tack free within 1 hour depending on ambient humidity and temperature. Application substrates must be dry and clean from contaminates; free of loose rust, paint, moisture, dirt, oils, etc. Concrete must be fully cured and should be prepared with a sandblasting, diamond grinding or machine sanding depending on the severity of the concrete surface condition. Similar proper preparation must be performed for metals. This material is to be applied within 40°F to 100°F. Mix Ratio is 1A (hardener) to 2B (resin). Mix thoroughly with a hand drill jiffy mixer. Coating may be applied by roller, brush, air-less or pressure-pot sprayer. Spraying may require up to 10% solvent such as aromatic 100 or xylene. Working time at 75°F is 25 min unless altered by solvent dilution, ambient temperatures and/or substrate temperature. Recommended max wet per coat application film thickness is 16 mils. Coverage at 16 mils is 100 sq. ft./ mixed gal. If application surface exhibits extensive corrosion, normal forms of media blasting is recommended to create a secure surface preparation.

WARRANTY

THE INFORMATION HEREIN IS BELIEVED TO BE RELIABLE, BUT UNKNOWN RISKS MAY BE PRESENT. SUPERSKINSYSTEMS, INC., WARRANTS ONLY THAT THE MATERIALS SHALL BE OF MERCHANTABLE QUALITY. THIS WARRANTY IS IN LIEU OF ALL OTHER WRITTEN OR UNWRITTEN, EXPRESSED OR IMPLIED WARRANTIES. SUPERSKINSYSTEMS, INC., EXPRESSLY DISCLAIMS ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, OR FREEDOM FROM PATENT INFRINGEMENT. ACCORDINGLY, BUYER ASSUMES ALL RISKS WHATSOEVER AS TO THE USE OF THESE MATERIALS. BUYER'S EXCLUSIVE REMEDY AS TO ANY BREACH OF WARRANTY OR NEGLIGENCE CLAIM SHALL BE LIMITED TO THE PURCHASE PRICE OF THE MATERIALS. FAILURE TO STRICTLY ADHERE TO RECOMMENDED PROCEDURES SHALL RELIEVE

100 Petty Road, Suite C | Lawrenceville, GA 30043
PH: 404-216-4711 | 404-229-8343 | 404-299-1505

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CHEMICAL RESISTANCE CHART

21 Day Immersion Test ASTM D3912

Chemical Name	Results @ 25°C
Acetic Acid	R
Acetone	R
Ammonium Hydroxide (14%)	R
Brake Fluid	R
Brine-Saturated Water (310g/l)	R
Clorox (10%) Water	R
Diesel Fuel	R
Gasoline	R
Gasoline 5% MTBE	R
Gasoline 5% Methanol	R
Hydrochloric Acid (25%)	R
Hydrochloric Acid (10%)	R
Hydraulic Fluid	R
Isopropyl Alcohol	R
Lactic Acid	R
MEK	R
Methanol	R
Methylene Chloride	C
Mineral Spirits	R
Motor Oil	R
MTBE	C
Muriatic Acid (10%)	R
NaCl Water (10%)	R
Nitric Acid (20%)	RC
Phosphoric Acid (10%)	R
Phosphoric Acid (50%)	R
Potassium Hydroxide (10%)	R
Potassium Hydroxide (20%)	R. Dis
Skydrol	R
Sodium Hydroxide (25%)	R. Dis
Sodium Hypochlorite (10%)	R
Sodium Bicarbonate	R
Stearic Acid	R
Sugar Water	R
Sulfuric Acid (10%)	RC
Sulfuric Acid (30%)	NR
Toluene	R
Trisodium Phosphate	R
Vinegar Water (5%)	R
Water	R
Water (14 days @ 82°C)	R

72 Hour Spot Test Chemical Resistance Data

Jet Epoxy

Chemical	Rating
NHO_3 50%	8
HCL 37.5%	9
NaOH 50%	8
H_2SO_4 50%	8
Hl 57%	8
H_3PO_4 50%	8
Brake Fluid	10
Anti-Freeze	10
Motor Oil	10

Rating Guidelines	
0-1	75-100% Film Dissolved
1-2	50-75% Film Dissolved
2-3	25-50% Film Dissolved
3-4	1-25% Film Dissolved
4-5	Film damage severe, cracking, pinholes
5-6	Film moderate to heavy damage, swollen, dulled
6-7	Film moderately damaged, haze, residue
7-8	Film with slight or no damage, slight haze, residue
8-9	Film in very good condition
10	Film unchanged, excellent condition

***NOTES:**

--All samples using 57% Hl had purple iodine discoloration due to the nature of the acid in the air

--Samples were placed at room temperature for 72 hours after application of 1 ml of solvent on 16 mil film of product

CHART KEY

R – Recommended (little or no visible damage)

RC – Recommended Condition (swelling or discoloration)

C- Conditional (crackling – wash down within 1 hour)

NR – Not Recommended

Dis. – Discoloration

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Xylene	**RC**

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