SUPERSKINSYSTEMS

Silicone Epoxy

Two-Component Epoxy System

SSS TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

Silicone Epoxy is a high temperature epoxy with excellent chemical resistance. It provides superior resistance to water spotting, even under adverse conditions and is DOT noncorrosive. This material is used in industrial flooring, chemically resistant tank linings, chemical handling equipment, chemical storage vessels and marine environments. It is used on metal, wood, fiberglass, concrete, masonry and other difficult to coat surfaces requiring a tough chemical resistant coating. Silicone Epoxy is optically clear and has excellent UV Resistance. It has outstanding temperature resistance allowing it to be used up to 400°F.

SILICONE EPOXY PHYSICAL PROPERTIES

Flex Modulus	ASTM D624	500 kpsi
Tensile Strength	ASTM D412	9320 psi
Elongation	ASTM D412	10%
Heat Deflection Temp.	ASTM D648	400°F
Taber Abrasion CS18	ASTM D4060	92 mg
Pot Life	Time	40 minutes

MIX RATIO

Read product labels and application instructions prior to use. Mix Silicone Epoxy Hardener (A-Side) and Resin (B-Side) at a ratio of 1A – 2B by volume. Mix with a variable speed drill utilizing a Jiffy Mixer. It is always recommended when using a colored resin, to mix the resin prior to mixing the two components. Mix resin thoroughly to suspend any settled pigment and attain a uniform color.

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

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 surface condition. Similar proper preparation must be performed for metals. Primers are also recommended for proper preparation. Always power clean using mild detergent prior to sanding, etc. This material is to be applied within 50°F to 100°F. Mix 1A (Hardener) to 2B (Resin) thoroughly with a hand drill jiffy mixer. Coating may be applied using roller, brush or low pressure pot spray. Spraying may require up to 10% solvent such as aromatic 100 or xylene. Working time (gel time) at 75°F is 40 minutes unless altered by solvent dilution, ambient temperatures and substrate temperature. Recommended max wet per coat application film thickness is 16 mils. Coverage at 16 mils is 100 sq. ft. per mixed gallon. This material is to be used directly on clean dry contaminant-free surfaces and becomes tack free within 3 hour depending on ambient humidity and temperature. Full cure is achieved under normal drying humidity in 7 days at ambient temperature.

www.superskinsystems.com

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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%)	R
Sulfuric Acid (30%)	R
Toluene	R
Trisodium Phosphate	R
Vinegar Water (5%)	R
Water	R
Water (14 days @ 82°C)	R
Xylene	RC

72 Hour Spot Test Chemical Resistance Data

Silicone 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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