CLEARSKIN

Two-Component Aliphatic Polyurea

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

ClearSkin is an extremely tough, optically clear, weather resistant, 2-component polyurea. It exhibits excellent durability, resistance to abrasion, chemicals and sunlight. It is used primarily in exterior high-wear environments where severe top-coating protection is required. This system may also be color tinted. It retains a high dielectric insulator capacity. ClearSkin may be used over diverse types of substrates such as metals, woods, foams, engineering polymers, composites, brick and concrete. A primer may be required depending on type of substrate or conditions thereof to achieve proper bonding performance. The toughness of ClearSkin places it in demanding industries such as power plants, boat building, marine environments, industrial outdoor heavy equipment, commercial flooring, decorative concrete, steel infrastructures, etc.

ClearSkin PHYSICAL PROPERTIES

Flex Modulus	ASTM D624	250 kpsi
Tensile Strength	ASTM D412	4200 psi
Elongation	ASTM D412	150%
Hardness	ASTM D758	75D
Tear Strength	ASTM D624	200 lbs./linear in.
Taber Abrasion CS17	ASTM D4060	50 mg/1k cycles
Pot Life	Time	1 hour

MIX RATIO

Read product labels and application instructions prior to use. For colored ClearSkin, pre-mix Resin (B-Side) prior to use to ensure any settled pigment is properly dispersed. Mix ClearSkin ISO (A-Side) and Resin (B-Side) at a ratio of 1A – 1B by volume. Mixing can be done by hand in small quantity. For a 5 gallon mix or more, mixing should be done with a variable speed drill utilizing a Jiffy Mixer 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.

Adhesion Results of Typical Substrates per ASTM D4541

Concrete – Primed	>300 psi	Concrete cohesive failure; excellent bonding
Steel – Primed	>1000 psi	Excellent bonding
Wood – Primed	>250 psi	Wood failure; excellent bonding

TECHNICAL APPLICATION

Substrates must be fully cured and cleaned prior to any coating operation. The cleaning operation must not leave any residual detergents, acids or alkali cleaners. Concrete flooring should be prepared with shot blasting (SPCC min. 2), diamond grinding and/or machine sanding depending on severity of concrete surface condition. When using ClearSkin for coating steel, the substrate should be shot blasted to an sspc 4-6 mils profile. After shot blasting, the substrate should be clean and dry. There should be no visible rust prior to coating. Clearskin may be applied using rollers or squeegees. Coverage at 16 mils is 100 sq. ft. / mixed gal.

WARRANTY

www.superskinsystems.com

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

SUPERSKINSYSTEMS

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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
Xylene	RC

72 Hour Spot Test Chemical Resistance Data

ClearSkin

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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