

ROCKSOLID INDUSTRIAL EXTERIOR TOPCOAT

Product Description

RockSolid Industrial Exterior Topcoat is a two-component, 80% solids, VOC Compliant, Aliphatic Polyurea that was developed for UV stable floor topcoats, chemical resistance and corrosion control. This coating provides reliable performance in a wide range of temperatures and climate conditions. 100% UV stability makes it an excellent choice for both interior and exterior applications.

PRODUCT FEATURES

- ❖ Displays fast cure times with excellent adhesion characteristics to a variety of substrates / coatings.
- ❖ Can be spray or roll applied at temperatures ranging from -20-120°F and in high humidity.
- ❖ Will provide a glossy smooth finish when cured.
- ❖ 100% polyurea elastomer displays excellent UV, chemical, and abrasion resistance at a wide range of temperatures.
- ❖ Emits virtually no odors and can be applied indoors with minimal disturbance contributed to high VOC levels that are found in most epoxies and polyurethanes.
- ❖ Versatile topcoat for use on both horizontal and vertical applications.
- ❖ Easy to mix 1:1 ratio.

PRIMARY APPLICATIONS

- ❖ UV-stable top coat for Interior / Exterior use
- ❖ Aircraft hangar floors
- ❖ Low temperature equipment
- ❖ Maintenance facilities
- ❖ Offshore platforms
- ❖ Industrial shop floors
- ❖ Car washes or wash bays
- ❖ Secondary containment
- ❖ Wastewater treatment applications
- ❖ Patios and Pool Surrounds

TEMPERATURE

-20°F - 120°F (-29°C - 49°C)

Optimal installation temperature is 40°F - 100°F (4°C - 38°C). Extreme cold applications may slow the cure time so plan accordingly. High heat and humidity will shorten work time.

ADHESION RESULTS

ASTM D-4541 Elcometer

Concrete-no primer	concrete failure >400psi
Concrete-primer	concrete failure >550psi
Wood-no primer	wood failure/shear >400psi

PACKAGING

Product is sold CLEAR in a 2 gallon KIT (1 gal A, 1 gal B)

TYPICAL PHYSICAL PROPERTIES

Tensile Strength	ASTM D412	
6000		
Compressive Strength (psi Mpa)	ASTM D695	
9400		
Elongation	ASTM D412	
100		
Tear Strength (PLI)	ASTM 2240	
330		
Hardness, Shore D	ASTM D2240	
73		
Flexibility, 1/8" Mandrel	ASTM D1737	Pass
Falling Sand Abrasion Resistance	ASTM D	
968	30	
*Liters sand/ 1 dry mil		
Tabor Abrasion mg loss	ASTM D4060	
CS17-Wheel	30 mg Loss per 1000	
cycles		
Viscosity B side 75°C	CPS 1400-1500	
Viscosity A side 75°C	CPS 700-800	
Gloss	ASTMD-523	90+
Radiant Flux (CRF)	ASTM E 648	
1.14 W/cm ²		

TYPICAL PROCESSING PROPERTIES

1:1 Ratio	Tack Free – 1-3 hours
Relativity Humidity-72°F-54%	Hard dry - 2-4 hours
	Recoat Maximum – 12 hours

Recommended Coverages

Topcoat over Medici Basecoat @3.2 mils DFT	400 sf/gal
Topcoat over Full Broadcast Quartz @10.2 mils DFT	125 sf/gal
Topcoat over Full Broadcast ¼" Chip @6.4 mils DFT	200 sf/gal

SURFACE PREPARATION

Old concrete

Sandblasting, diamond grinder w/30 grit or coarser, or water blasting is highly recommended to remove surface contaminants. Any oils or fats must be removed prior to product application. Do not apply to wet substrates. Chloride, moisture and pH levels should be checked prior to application.

New Concrete

The concrete should be allowed to cure for a minimum of 30 days unless using an RockSolid Industrial Moisture Stopping Primer. Sand blasting, diamond grinder w/30 grit or coarser or acid etching is required to remove the surface laitance that appeared during the curing process. Shot blasting is not suggested. Chloride, moisture and pH levels should be checked prior to application. RockSolid Industrial Basecoat can be used to reduce outgassing.

Aluminum, Galvanized Steel, Non-Ferrous Metals

All metals must be prepared to a near white surface that is equivalent to SSPC 10 or NACE 2. For immersion service, a 3 mil blast profile is recommended. A 2 mil profile is generally accepted. RockSolid Industrial Basecoat must be used as the adhesive primer on all metals prior to applying other coatings.

Wood

Sand entire surface to remove any burs or rough spots that may affect the finish of the coatings. Make sure all nail/screw holes and joints are detailed using either RockSolid Industrial Fast Patch or RockSolid Industrial Fortification Formula prior to coating. Cotton mesh may be used to help bridge joints in moving substrates. Primer will be the **ROCKSOLID INDUSTRIAL BUILD COAT**. RockSolid Industrial Exterior Topcoat is not recommended as a high build primer on wood substrates.

Existing Coatings

Cured coatings (beyond their re-coat windows) must be abraded via scuff sanding with 80-120 grit sandpaper prior to the application of RockSolid Industrial Exterior Topcoat. Wipe surface clean with a tack rag after a thorough vacuuming to perform a final cleaning.

Substrate Repairs

All spalls and cracks should be chased out and repaired to ICRI standards using RockSolid Industrial Fortification Formula. Expansion joints should be honored.

INSTALLATION RECOMMENDATIONS

RockSolid Industrial Exterior Topcoat adheres well to several sound substrates and coatings when properly prepared including but not limited to; concrete, steel, fiberglass, epoxy, urethanes, and polyureas. All surfaces should be free of loose particles, rust, voids, and spalls. It is recommended that this product be applied in a multi-directional (north, south, east and west) motion to help ensure proper coating thickness. **ALWAYS FOLLOW THE DEW POINT CHART AND APPLY ACCORDINGLY.**

APPLICATION INFORMATION

Material should be pre-conditioned to a minimum of 50°F (10°C) prior to use. Thoroughly mix both the A and B side components using separate paddle mixers and a drill for a minimum of 1 minute to place the solids content evenly in suspension. This should be done prior to every use before combining the two components. Following the mix ratio of 1A:1B, combine the two components in a calibrated mixing container and blend together with a

paddle style mixer and drill for at least 1 minute. RockSolid Industrial recommends a maximum batch size of 1 gallon, however larger quantities can be mixed depending on the scope of the project. Never mix more material than can be placed and finished in 20-25 minutes.

Roller

Use only phenolic core, solvent resistant, natural or synthetic fiber roller covers. ¼" to 3/8" nap are acceptable, thicker nap may cause bubbling of the coating.

Brush

Inexpensive natural fiber chip brushes are suggested – 2" to 4" width depending on the application. These will be one-time use items.

Thinner

RockSolid Industrial Exterior Topcoat can be thinned with up to 10% Acetone by volume if a thinner coating is required.

Clean Up

Use ACETONE to clean tools, etc. before product cures.

SHELF LIFE AND STORAGE

Twelve (12) months in factory delivered unopened pouches. Keep away from extreme heat, cold and moisture. Maintain at a proper storage temperature of 50-90° F. Keep out of direct sunlight and away from fire hazards.

REPAIRS AND MAINTENANCE

Re-application of the product after 12 hours of initial application requires sanding and cleaning to achieve optimum adhesion. Contact an RockSolid Industrial representative for site specific recommendations.

LEED CREDITS

Most RockSolid Industrial products contribute to LEED Credits. See our LEED Credit Bulletin for more information.

CERTIFICATIONS

VOC Compliant in all 50 states, Canada, Australia and Various Countries in Europe (National Standards – IMC) USDA and FDA certified food safe for incidental food contact.

Radiant Flux Tested and Certified.

SHIPPING INFORMATION

Flash Point:	17°C (63°F)
Weight/Gallon:	8.5 ±1.0 lbs.
DOT HAZARD CLASS	Class 3
DOT PACKAGING GROUP	II
DOT LABEL	Flammable Liquid
DOT SHIPPING NAME	Paint Related Material
DOT PLACARD	Flammable Liquid

SAFETY PRECAUTIONS

DANGER!! Vapor and Atomized liquids are harmful. Overexposure may cause lung damage, allergic skin reactions, or respiratory reactions. Effects may be permanent, may affect the brain or nervous system causing dizziness, headaches, or nausea. Use only in well ventilated areas, wear approved respirators when necessary. Keep out of reach of children. See MSDS for First Aid recommendations.

WARRANTY

The technical data and any other printed information furnished by Intégrité Polyurea Coatings are true and accurate to the best of our knowledge. ROCKSOLID INDUSTRIAL EXTERIOR TOPCOAT™ conforms to in house quality control procedures and should be considered free of defects. The data provided is believed to be reliable and is offered solely for evaluation. The use

Chemical Resistance

			Methanol	R		
Acetic Acid 100%	RC		Methylene Chloride	C	Sugar/H2O	R
Acetone	R		Mineral Spirits	R	Sulfuric Acid 10%	R
Ammonium Hydroxide 50%		RC	Motor Oil	R	Sulfuric Acid >50%	R
Benzene	RC		MTBE	C	Toluene	R
Brake Fluid		R	Muriatic Acid 10%	R	1, 1,1-Trichlorethane	C
Brine saturated H2O		R	NaCl/H2O 10%	R	Trisodium Phosphate	R
Chlorinated H2O	R		Nitric Acid 20%	RC	Vinegar/H2O 5%	R
Diesel fuel		R	Phosphoric Acid 10%		H2O 14 days at 82° C	R
Ethanol	R		Phosphoric Acid 50%		Xylene	R
Gasoline	R		Potassium Hydroxide 10%	R		
Gasoline/5% MTBE	R		Potassium Hydroxide 20%	R,		
Gasoline/5% Methanol		R	Dis			
Hydrochloric Acid 20%	R		Propylene Carbonate			
Hydrofluoric Acid 10%		RC	Skydrol	RC		
Hydraulic fluid (oil)	R		Sodium Hydroxide 25%			
Isopropyl Alcohol	R		Sodium Hydroxide 50%	R.		
Jet Fuel (JP-4)	R		Dis			
Lactic Acid		RC	Sodium Hypchlorite 10%	R		
MEK	R		Sodium Bicarbonate	R		
			Stearic Acid	R		

Chemical Resistance Key

R=recommended/little or no visible damage
 RC=recommended conditional/some effect, swelling or discoloration
 C=Conditional/Cracking-wash within one hour of spillage to avoid affects
 NR=Not recommended
 Dis=Discolorative

of this product is beyond the control of the seller, therefore the buyer assumes all risks of use and handling whether done in a matter that is in accordance with the provided posted directions or not. RockSolid Industrial makes no warranty; expressed or implied, of its products and shall not be liable for indirect or consequential damage in any event.