

ROCKSOLID INDUSTRIAL TOPCOAT

Product Description

RockSolid Industrial Topcoat is a single component, 90% solids, VOC Compliant, Aliphatic Polyurea that was developed for high gloss UV-stable floor topcoats, chemical resistance, and corrosion control. This coating provides reliable performance in a wide range of temperatures and climate conditions. RockSolid Industrial Topcoat has excellent resistance to UV rays, abrasion, and many of today's harshest chemicals.

PRODUCT FEATURES

- ❖ Displays excellent adhesion characteristics to a variety of substrates / coatings.
- ❖ Unlimited pot life increases the workability of the coating, providing consistent aggregate broadcasts and uniform topcoat applications.
- ❖ Will provide a glossy smooth finish when cured.
- ❖ Coating displays excellent chemical and abrasion resistance.
- ❖ Emits virtually no odors and can be applied indoors with minimal disturbance to surrounding activities.
- ❖ VOC FREE
- ❖ 100% UV-Stable Aliphatic Chemistry
- ❖ Versatile, crystal clear topcoat for use on both horizontal and vertical applications.
- ❖ Single component means no possible mixing errors, thus eliminating the human error factor.
- ❖ Extended cure time delivers great self-leveling properties and glass-smooth finishes.

PRIMARY APPLICATIONS

- ❖ Heavy traffic areas
- ❖ Aircraft hangar floors
- ❖ Maintenance facilities
- ❖ Industrial shop floors
- ❖ Commercial kitchens
- ❖ Bathrooms and Lavatories
- ❖ Chemical manufacturing plants
- ❖ Wastewater treatment applications
- ❖ Bar, table and countertop sealer

TEMPERATURE

40°F - 120°F (4°C - 49°C)

Optimal installation temperature is 65°F -80°F (18°C - 27°C). Extreme cold applications may slow the cure time.

ADHESION RESULTS

ASTM D-4541 Elcometer

Concrete-no primer	concrete failure
>500psi	
Concrete-primer	concrete failure
>550psi	
Wood-no primer	wood failure/shear
>400psi	

PACKAGING

Product is sold CLEAR in 1 gallon pouches

TYPICAL PHYSICAL PROPERTIES

Tensile Strength	ASTM D412	
5,500		
Compressive Strength (psi Mpa)	ASTM	
D695 12,000		
Elongation	ASTM D412	
75		
Tear Strength (PLI)	ASTM 2240	
800		
Hardness, Shore D	ASTM D2240	
80		
Flexibility, 1/8" Mandrel	ASTM D1737	Pass
Falling Sand Abrasion Resistance	ASTM	
D968 30		
<small>*Liters sand/ 1 dry mil</small>		
Abrasion Resistance	ASTM D4060	
CS17-Wheel (1,000 gm Load)		12 mg
Loss / 500 cycles		
Gloss	ASTMD-523	91+
Permeability	.038 WVT	

TYPICAL PROCESSING PROPERTIES

Single Component - 72°F (24°C)	Tack Free-1-2
hours	
Relativity Humidity - 54%	Hard dry-3-6
hours	
	Recoat Minimum-4 hours
	Recoat Maximum - 12
hours	

Recommended Coverages

Topcoat Over Partial Chip	450-550 sf/gal	@2.9 mils
DFT		
Topcoat Over Full Chip	200-300 sf/gal	@4.8 mils
DFT		
Topcoat Over Medici Basecoat	500-600 sf/gal	@2.6 mils
DFT		

VOC compliant in all 50 states and Canada

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 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 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 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. DO NOT APPLY IN DIRECT SUNLIGHT OR WHEN TEMPERATURES ARE STEADILY RISING. THIN MATERIAL WITH UP TO 15% MEK FOR TOPCOAT USE OVER 80°F (27°C)**

APPLICATION INFORMATION

Material should be pre-conditioned to a minimum of 50°F (10°C) prior to use. The material temperature must be brought to 5°F above the dew point temperature before opening and agitating the material to prevent condensation from entering the coating. Thoroughly mix the single component material using a paddle mixer and drill for a minimum of 1 minute to place the solids content evenly in suspension. This should be done prior to every use. For each 1 gallon pouch, add the **ENTIRE CONTENTS** of the **TOPCOAT STABILIZER** and thoroughly mix together for a minimum of 1 minute with a drill and paddle style mixer until a uniform consistency is achieved. Pour the material into a roller pan or directly on the floor to squeegee apply. Follow the instructions in the installation manual for the different systems. Any unused material may be placed back in a separate, sealed storage container for future use. **DO NOT POUR UNUSED MATERIAL BACK INTO THE ORIGINAL SHIPPING CONTAINER AS IT COULD CONTAMINATE THE ENTIRE BATCH.** Seal all containers immediately after pouring out desired quantities. It is important to limit the time the pouch is open. Mix and pour out only what is needed. At the end of the day apply a solvent "float" of approximately 3 ounces of MEK over the surface of the coating before resealing the pouch.

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 Topcoat can be thinned with up to 10% MEK by volume if a thinner coating is required. **DO NOT USE ANY OTHER TYPE OF SOLVENT.**

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. **DO NOT APPLY IN DIRECT SUNLIGHT OR WHEN TEMPERATURES ARE STEADILY RISING.**

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.

SHIPPING INFORMATION

Flash Point: 47°C (117°F)
 Weight/Gallon: 9.7 ±1.0 lbs.
 DOT HAZARD CLASS N / A
 DOT PACKAGING GROUP II
 DOT LABEL N / A
 DOT SHIPPING NAME Paint Related Material
 DOT PLACARD N / A
 UN / NA NUMBER 1263

SAFETY PRECAUTIONS

DANGER!! Vapor and Atomized liquids are harmful. Overexposure may cause lung damage, allergic skin

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%	R	H2O 14 days at 82° C	R
Ethanol	R	Phosphoric Acid 50%	NR	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	RC		
Hydrofluoric Acid 10%	RC	Skydrol	RC		
Hydraulic fluid (oil)	R	Sodium Hydroxide 25%	R		
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

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 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 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.