

## ROCKSOLID INDUSTRIAL BUILD COAT

### Product Description

RockSolid Industrial Build Coat is a two-component, 98% solids, VOC Compliant Polyurea that is used as a high build coating to accept decorative aggregate broadcasts. This coating is relatively moisture insensitive and performs well in a wide range of temperatures and climate conditions. Extended working time makes it a great choice for both residential and commercial applications.

### PRODUCT FEATURES

- ❖ Displays moderate cure times with excellent adhesion characteristics to a variety of substrates / coatings.
- ❖ Can be roll applied at temperatures ranging from -20-120°F and in high humidity.
- ❖ Long “open times” allow for self leveling capabilities and increased hiding power as well as consistent broadcasts of decorative aggregate.
- ❖ 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.
- ❖ Can be applied to vertical surfaces as a primer/basecoat or stand-alone coating.
- ❖ Easy to mix 1:2 ratio.

### PRIMARY APPLICATIONS

- ❖ Wall coating over sheetrock, wood, and concrete
- ❖ Aircraft hangar floors
- ❖ Automotive shops
- ❖ Maintenance facilities
- ❖ Residential garages
- ❖ Industrial shop floors
- ❖ Pool surrounds
- ❖ Bathrooms and locker rooms
- ❖ Sidewalks and walkways
- ❖ Wastewater treatment applications
- ❖ High build systems

### TEMPERATURE

-20°F - 120°F (-29°C - 49°C)

Optimal installation temperature is 50°F - 90°F (10°C - 32°C) Extreme cold applications may slow the cure time.

### ADHESION RESULTS

ASTM D-4541 Elcometer

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

### PACKAGING

Product is sold CLEAR in a 3 gallon kit (1 gallon Part A, 2 gallons Part B)

### TYPICAL PHYSICAL PROPERTIES

Tensile Strength	ASTM D412
3600	
Elongation	ASTM D412
198	
Tear Strength (PLI)	ASTM 2240
350	
Modulus of Elasticity	47,900 psi
Flexibility, 1/8” Mandrel	ASTM D1737 Pass
Tabor Abrasion mg loss	ASTM D4060 31
Impact Resistance	ASTM D2794
250 in. lbs.	
	Direct
Impact Resistance	ASTM D2794
285 in. lbs.	
	Indirect
Radiant Flux (CRF)	ASTM E 648
1.14 W/cm <sup>2</sup>	

### TYPICAL PROCESSING PROPERTIES

1:2 Mix Ratio	2-4 Hours – Tack Free
Relative Humidity-72°F-54%	Hard dry-2-4 hours
	Mar free-4-6 hours
	Recoat – 12 hours Max.
	Foot Traffic – 8-12 Hours

### Recommended Coverages

Intermediate Coat	100-125 sf/gal	@13.6 mils
DFT		
-Double Broadcast Quartz Flooring		
Over Tile	80-120 sf/gal	@15.6 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**.

#### **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 Basecoat. 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 Build Coat 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.

### **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:2B, combine the two components in a calibrated mixing container and blend together with a paddle style mixer and drill for at least 1 minute. When used as the intermediate coating on a double broadcast quartz floor, RockSolid Industrial suggests adding Acetone at a rate of 10% by total volume mixed to thin the coating and make it easier to apply. RockSolid Industrial

recommends a maximum batch size of 1-2 gallons at a time, 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.

#### **Squeegee Application (Double Broadcast Quartz Flooring)**

When used as the intermediate coating, the mixed product should be poured on the floor and spread using a tight, flat squeegee. It should then be backrolled using a saturated roller until even in thickness. Decorative aggregate should be broadcast into the wet coating no later than 20 minutes after application.

#### **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 Build Coat can be thinned using Acetone at rates up to but not exceeding 15% by total volume mixed.

#### **Clean Up**

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

### **SHELF LIFE AND STORAGE**

Twelve (12) months in factory delivered unopened buckets. 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.  
Radiant Flux Tested and Certified.

### **SHIPPING INFORMATION**

Flash Point: 140°C (284°F)

Weight/Gallon: 9.9 ±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 N / A

### **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 BUILD COAT™ 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.