

ROCKSOLID INDUSTRIAL BASECOAT

Product Description

RockSolid Industrial Basecoat™ is a single component, 100% solids, aromatic Polyurea that has excellent adhesion properties to a variety of substrates. Due to its unique chemical make-up and manufacturing process, this coating exhibits great wetting properties while offering a virtually unlimited pot-life. Low odor and minimal VOC content make it a great choice for both interior and exterior applications.

PRODUCT FEATURES

- ❖ Displays excellent adhesion characteristics to a variety of substrates / coatings.
- ❖ Emits virtually no odors and can be applied indoors with minimal disturbance to surrounding activities.
- ❖ VOC FREE
- ❖ Unlimited pot life increases the workability of the coating, providing consistent aggregate broadcasts.
- ❖ Single component means no possible mixing errors, thus eliminating the human error factor.
- ❖ 100% solids formulation.
- ❖ Versatile primer for use on both horizontal and vertical applications.
- ❖ Exhibits fast return-to-service and cure times.
- ❖ Incredible bond to prepared metals, concrete, and fiberglass.
- ❖ Maintains flexibility even in cold temperatures.

PRIMARY APPLICATIONS

- ❖ Large warehouse facilities
- ❖ Heavy traffic areas
- ❖ Aircraft hangar floors
- ❖ Maintenance facilities
- ❖ Industrial shop floors
- ❖ Commercial kitchens
- ❖ Bathrooms and Lavatories
- ❖ Chemical manufacturing plants
- ❖ Residential garages and basements
- ❖ Marine applications

TEMPERATURE

40°F - 120°F (4°C - 49°C)

Optimal installation temperature is 55°F -90°F (13°C - 32°C). Extreme cold applications may slow the cure time.

ADHESION RESULTS

ASTM D-4541 Elcometer

Concrete	concrete failure	>500psi
Steel	shear failure	>2000psi
Wood-no primer	wood failure/shear	>400psi

PACKAGING

Product is sold CLEAR in 1 gallon pouches (114 oz. actual)

TYPICAL PHYSICAL PROPERTIES

Tensile Strength	ASTM D412
5,200	
Compressive Strength (psi Mpa)	ASTM
D695 11,500	
Elongation	ASTM D412
75	
Tear Strength (PLI)	ASTM 2240
740	
Hardness, Shore D	ASTM D2240
78	
Flexibility, 1/8" Mandrel	ASTM D1737 Pass
Falling Sand Abrasion Resistance	ASTM
D968 30	
*Liters sand/ 1 dry mil	
Abrasion Resistance	ASTM D4060
CS17-Wheel (1,000 gm Load)	10 mg
Loss / 500 cycles	
Viscosity at 77°F (cps)	425

TYPICAL PROCESSING PROPERTIES

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

Coverage: 1,600 square feet, per gallon, per mil.

Recommended Coverages

Primer (Ground Concrete)	300-400 sf/gal
@4.6 mils DFT	
Primer (Acid Wash Concrete)	400-500 sf/gal
@3.6 mils DFT	
Primer (Metal)	400-700 sf/gal @2.9 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 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 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. Intégrité Coatings 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 Fast Patch or RockSolid Fortification Formula prior to coating. Cotton mesh may be used to help bridge joints in moving substrates. Primer will be the **ROCKSOLID BUILD COAT**. RockSolid Basecoat 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 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 Fortification Formula. Expansion joints should be honored.

INSTALLATION RECOMMENDATIONS

RockSolid Basecoat 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. 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. Add the **ENTIRE CONTENTS** of the **BASECOAT STABILIZER** to the pouch and thoroughly mix the material using a paddle

mixer and drill for a minimum of 1 minute to place the solids content evenly in suspension. Add (1) 14 oz. Colour Shot to the pouch and mix for an additional 1 minute or until a uniform color is achieved. (The volume of the Colour Shot and the tint-to-coating ratio have been pre-measured for color accuracy and opacity – make sure to add all of the material in the Colour Shot to the 1 gallon pouch of Intégrité Coatings Basecoat.) Roll or squeegee apply the material in a thin and even layer following the instructions in the installation manual. Seal all containers immediately after pouring out desired quantities. 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 Basecoat 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 60-100° 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 Intégrité Coatings representative for site specific recommendations.

LEED CREDITS

Most Rocksolid 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: 110°C (230°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 1263

WARRANTY

The technical data and any other printed information furnished by RockSolid Polyurea Coatings are true and accurate to the best of our knowledge. ROCKSOLID BASECOAT™ 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 makes no warranty; expressed or implied, of its products and shall not be liable for indirect or consequential damage in any event.

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.

Hydrochloric Acid 20%		R	Sodium Hydroxide 50%	R.
Hydrofluoric Acid 10%		RC	Dis	
Hydraulic fluid (oil)	RC		Sodium Hypchlorite 10%	R
Isopropyl Alcohol	R		Sodium Bicarbonate	R
Jet Fuel (JP-4)	R		Stearic Acid	R
Lactic Acid		RC		
MEK	RC			

Sugar/H2O			R
Sulfuric Acid 10%		R	
Sulfuric Acid >50%		R	
Toluene		R	
1, 1,1-Trichlorethane			C
Trisodium Phosphate			R
Vinegar/H2O 5%		R	
H2O 14 days at 82° C			R
Xylene		R	

Chemical Resistance

Acetic Acid 100%	RC	
Acetone	R	
Ammonium Hydroxide 50%		RC
Benzene	RC	
Brake Fluid		RC
Brine saturated H2O		R
Chlorinated H2O	R	
Clorox(10%) H2O	R	
Diesel fuel		RC
Gasoline	R	
Gasoline/5% MTBE	R	
Gasoline/5% Methanol		R

Methanol	R	
Methylene Chloride	C	
Mineral Spirits	R	
Motor Oil	R	
MTBE	C	
Muriatic Acid 10%	R	
NaCl/H2O 10%	R	
Nitric Acid 20%	RC	
Phosphoric Acid 10%		RC
Phosphoric Acid 50%		NR
Potassium Hydroxide 10%		R
Potassium Hydroxide 20%		R,
Dis		
Propylene Carbonate		RC
Skydrol	RC	
Sodium Hydroxide 25%		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