

ROCKSOLID POLYCURAMINE™

Product Description

ROCKSOLID Polycuramine™ is a two component, 96% solids, cyclo-aliphatic hybrid coating system that has exceptional adhesion properties to concrete substrates. Due to its unique chemistry, this coating exhibits great flexibility, working times and self-leveling properties while offering great chemical resistance as well. Low odor makes it a great choice for both interior and exterior applications.

Product Features

- ❖ Emits virtually no odors and can be applied indoors with minimal disturbance to surrounding activities.
- ❖ VOC FREE
- ❖ 45 minute pot life
- ❖ Serves as both a primer and basecoat in 1 easy coat.
- ❖ Easy to mix 2 parts A : 1 part B ratio
- ❖ 96% solids formulation.
- ❖ Exhibits great self-leveling properties with a built in shine.
- ❖ 7 day recoat window without sanding

Primary Applications

- ❖ Primer/Basecoat for Solid Color and Broadcast systems
- ❖ Basecoat for ROCKSOLID Pearlescent Metallic system
- ❖ Self-Leveling build coat for heavily damaged floors

Packaging

Product is sold CLEAR in 3 gallon pail kits.

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.

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 45-90° F. Keep out of direct sunlight and away from fire hazards.

Typical Physical Properties

Tensile Strength	ASTM D412
N/A	
Compressive Strength (psi Mpa)	
ASTM D695	N/A
Elongation	ASTM D412
N/A	
Tear Strength (PLI)	ASTM 2240
N/A	
Hardness, Shore D	ASTM D2240
90	
Flexibility, 1/8" Mandrel	ASTM D1737
Pass	
Falling Sand Abrasion Resistance	ASTM
D968	N/A
*Liters sand/ 1 dry mil	
Abrasion Resistance	ASTM D4060
CS17-Wheel (1,000 gm Load)	40 mg
Loss / 1000 cycles	
Viscosity at 77°F (cps)	500

Typical Processing Properties

Two Component	Tack Free -
8-10 hours	
72°F - 54% Relativity Humidity	Hard dry -
12-16 hours	
	Recoat Maximum – 7
days	

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

Recommended Coverage
Primer/Basecoat (Normal Concrete) 300 sf/gal
@5.3 mils DFT
Primer/Basecoat (Damaged Concrete) 100 sf/gal
@16 mils DFT

Adhesion Results

ASTM D-4541 Elcometer
Concrete Concrete failure
>500psi

VOC compliant in all 50 states and Canada

Surface Preparation

Old concrete - Sandblasting, shot blasting, 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. Acid etching may be required (followed by a thorough rinsing) to open the pores of the concrete to accept a primer. 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 ROCKSOLID Ultra-Hydro Stop Primer™. Shot-blasting, 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. A primer should be used to reduce out gassing and promote adhesion.

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.

Fiberglass

The gel coat must be abraded to allow a mechanical bond of the coating. Sanding using 40-60 grit sandpaper is generally acceptable. Remove all latent dust and clean the surface to be coated using a solvent such as acetone or xylene.

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 RSP Fast Patch or ROCKSOLID Fortification Formula prior to coating. Cotton mesh may be used to help bridge joints in moving substrates.

Substrate Repairs

All spalls and cracks should be chased out and repaired to ICRI standards using ROCKSOLID-Fortification Formula. Expansion joints should be honored. Horizontal saw-cut control joints can be filled with ROCKSOLID Polyflex-93. Custom

coloring of repair materials is available upon request. Contact ROCKSOLID for available colors and finishes.

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 Polycuramine™. Wipe surface clean with a tack rag after a thorough vacuuming to perform a final cleaning.

Primer Requirements

No primer requirements for this product expect for high moisture slabs. In this case use ROCKSOLID Ultra Hydro Stop or Ultra Hydro Stop H20.

Installation Recommendations

ROCKSOLID Polycuramine™ is designed to be applied over concrete surfaces. The surface should be free of loose particles, rust, oils and contaminants. 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

Mixing

Material should be pre-conditioned to a minimum of 70°F (21°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 both components separately using a paddle mixer and a drill for a minimum of 2 minutes to place the solids content evenly in suspension. Then combine the two components at a mix ratio of 2 parts A : 1 part B and mix well for at least 1 minute.

Application

Pour ribbons and spread with a 1/8" or 1/4" notch squeegee and back roll with a 3/8" nap roller. If working out of a pan, simply dip and roll and spread in an "m" and "w" pattern to the desired spread rate (300 sf per gallon is recommended).

Roller

Use only phenolic core, solvent resistant, natural or synthetic fiber roller covers. 3/8" nap rollers are recommended in order to comply with spread rate requirements.

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 Polycuramine 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.

Limitations

The product must be installed at the specified spread rates to perform as described. Do not apply in direct sunlight. Do not apply product when substrate and ambient temperatures are steadily below 40 degrees F (4 degrees C).

Repairs and Maintenance

Small repairs to cuts in the coating can be made with ROCKSOLID Polycuramine. Re-application of the product after 7 days of initial application requires scuff sanding (80-120 grit) and solvent wiping to achieve optimum adhesion. Contact ROCKSOLID 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)

Chemical Resistance

Chemical Resistance		Brine saturated H2O	Hydrochloric Acid 20%
		R	R
Acetic Acid 10%	R	Chlorinated H2O	R
Acetone	R	Clorox(10%) H2O	R
Ammonium Hydroxide 50%		Diesel fuel	
RC		R	
Benzene	RC	Gasoline	R
Brake Fluid		Gasoline/5% MTBE	R
RC		Gasoline/5% Methanol	
		R	
			Hydrofluoric Acid 10%
			RC
			Hydraulic fluid (oil)
			RC
			Isopropyl Alcohol
			R
			Jet Fuel (JP-4)
			R
			Lactic Acid
			RC
			MEK
			RC

USDA and FDA certified food safe for incidental food contact.

Shipping Information

Flash Point:	Not Applicable
Weight/Gallon:	9.3 ±1.0 lbs.
DOT HAZARD CLASS	9 MISC. Liquid N.O.S.
DOT PACKAGING GROUP	III
DOT LABEL	N / A
DOT SHIPPING NAME	N / A
DOT PLACARD	Limited Quantity
UN / NA NUMBER	3082

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 ROCKSOLID are true and accurate to the best of our knowledge. ROCKSOLID POLYCURAMINE™ 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.

Methanol	R	Skydrol	R	1, 1,1-Trichlorethane	
Methylene Chloride	C	Sodium Hydroxide 25%	R	C	
Mineral Spirits	R	Sodium Hydroxide 50%	R	Trisodium Phosphate	
Motor Oil	R	Sodium Hypchlorite 10%	R	R	
MTBE	C	Sodium Bicarbonate	R	Vinegar/H2O 5%	R
Muriatic Acid 10%	R	Stearic Acid	R	H2O 14 days at 82° C	
NaCl/H2O 10%	R			R	
Nitric Acid 20%	RC			Xylene	R
Phosphoric Acid 10%					
RC					
Phosphoric Acid 50%		Sugar/H2O			
NR		R			
Potassium Hydroxide 10%	R	Sulfuric Acid 10%	R		
R		Sulfuric Acid >50%	R		
Potassium Hydroxide 20%	R, Dis	Toluene	R		
Propylene Carbonate	R				
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