



ROCKHARD USA

ROCKHARD USA is a self-leveling, non-solvent clear resin epoxy coating with superior properties for hardness, adhesion, durability, chemical resistance, and dust proofing. ROCKHARD USA is a two component, 100% solid epoxy coating that has excellent performance and smoothness for producing a seamless finish after application. ROCKHARD USA is most effective for interior design applications and meets LEED standards. The coating will control moisture vapor emission rates over 10-12 lb. /24 hr./1000 square feet.

USAGE:
ROCKHARD USA epoxy coating material is designed for concrete surfaces, including countertops, flooring, bars, and tabletops as well as other hard surface types.

MATERIAL TYPE:
A two component resinous epoxy coating material.

SPECIFICATION

	Category	41 F	68 F	86 F
Drying time	Set-to-touch	10 hours	5 hours	3 hours
	Dry-through	32 hours	16 hours	10 hours
	Over-coat(Max.)	48 hours	36 hours	18 hours
	Maturation time	9 days	4 days	3 days
	Pot life	40 minutes	20 minutes	10 minutes
Above pot life and follow-up coating time have been measured under laboratory conditions and may vary depending on the construction site.				
The film that has passed the maximum follow-up coating time may have adhesion failure. Please apply after checking the proper surface treatment and adhesion.				
Thinner	Not Applicable	Dilution ratio	☒ No dilution ☒ In case of high viscosity in the winter season, dilute within the volume ratio 1%	
Specific gravity	Approx. 1.09			
Theoretical Coverage	3.4 kg/m ² (Based on 3.0 mm)	Solid volume ratio	96±3 %	
Color	Clear (Compounds)	Thickness of dried film	2~3 mm	
Mixing ratio	base(A)/hardener(B)=3/1 (Weight ratio)	Gloss	Glossy	
Shelf life	12 months	Packaging unit	16L (Compounds)	

HOW TO USE

SURFACE TREATMENT:
Concrete surfaces must be cured for at least 28 days at a temperature of 21°C/70°F Celsius or higher with a relative humidity of 50%. For maximum performance, concrete surfaces that have any existing oil, moisture, sand, dust, laitance, and other foreign matter must be removed from the surface before starting the application.

COATING CONDITIONS:
Atmosphere Temperature: 5-35°C/41-95°F, Surface Temperature: 40°C/104°F Celsius or below, Relative Humidity: 80% or less, Moisture Content in Concrete: 3% or less. Due to the nature of the epoxy material, a difference in color tint may be shown over time if the existing surface is a brighter color. The degree of occurrence for yellowing varies depending on the long-term exposure to sunlight or the usage of extreme indoor lighting fixtures, etc. Applying this material at thinner coverage levels than the recommended amount may cause a further delay in the epoxy drying time, decline hardness abilities, or cause skid marks, whitening streaks, etc.

COATING METHOD:
Reinforce surface cracks, crevices, and joints between walls and floors with an epoxy joint filler product or putty before the first coat. Apply with an industrial-grade floor trowel squeegee. Care should be taken since problems such as cratering may occur upon applying coating too thin. (2mm or less - 1 time)

APPROPRIATE CONSTRUCTION SPECIFICATIONS:
Primer: ROCKHARD USA clear epoxy primer
Top Coat: ROCKHARD USA epoxy cover coat

SPECIAL INSTRUCTIONS:
When incorporating Metallic Pigments into Rockhard Epoxy Systems, there is a potential risk of comet trails occurring due to the incomplete dispersion of powders or metallic materials within the formulation. It is recommended to maintain a minimum cured product thickness of 32-40 mils to minimize these imperfections.





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PHYSICAL PERFORMANCE PROPERTIES

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Adhesion/Bond Strength (psi)	ASTM D4541	> 400 psi (100% Concrete Failure)
Coefficient Friction [Wet DCOF]	ASTM A326.3	> .62
Comprehensive Strenght (psi MPa)	ASTM D695	11,600 psi
Flammability	—	Self-extinguishing over concrete
Flexural Strength	ASTM D790	13.500 psi
Gloss @ 60° Angle	ASTM D523	> 90
Hardness, Shore D [24 hours]	ASTM D2240	82-85
Taber Abrassion [CS17 Wheel, 1000 g Load, 1000 Cycles]	ASTM D4060	50 mg loss
Abrasive Resistance (CS17 / 1000 cycles / 1000 g)	ASTM D4060	0.15 g
Impact Resistance	ASTM D2794	2.5 ft. lb.
Tensile Strenght	ASTM D638	10,000 psi
Elongation %,	ASTM D638	10%

