



HIGH PERFORMANCE TECHNOLOGY – ZERO VOCs

HP-330 High Solids Epoxy

TECHNICAL DATA SHEET

(Revised February 2013)

Product Description

HP-330 is a two component, zero VOC, 100% solids, solvent free, self-leveling epoxy coating. HP-330 is formulated for demanding environment applications and also provides an aesthetically appealing appearance. The HP-330 provides a tough, high gloss finish that combines excellent acid and chemical resistance with superior adhesion to many substrates. HP-330 can be applied to vertical surfaces at less than 10 mils, to horizontal applications from 10 mils to as thick as desired depending on the condition of the surface.

- High Gloss – Clear & Colors
- Zero VOCs
- One product replaces 3 – fill cracks and spalled concrete without the need of a separate primer
- Easy application – squeegee, roll or brush
- Excellent chemical and abrasion resistance
- Achieves a hard, smooth and glossy surface that is easy to clean and disinfect
- High gloss improves brightness of available light

Recommended Markets For Interior & Exterior Use:

Airports / Transportation	Hangars
Amusement / Theme Parks	Healthcare / Pharmaceutical
Auto Dealerships	Hospitality
Bar Tops	Marine Industry
Commercial Buildings	Power Plants
Education	Restaurant / Food Service
Food & Beverage	Warehouse / Manufacturing
Garages	Wastewater Facility

Direct to many surfaces without the need for a primer:

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|-------------------------------|--------------|
| • Concrete | • Wood |
| • Metal | • Fiberglass |
| • Previously Painted Surfaces | • Steel |

Compatible JFB Hart Coatings products:

- HP-105 High Gloss Urethane
- HP-300 Matte & Satin Urethane

Product Characteristics

Finish:	Up to 100° Gloss @ 60° angle
Color:	Clear & Colors
Volume Solids:	100%
VOCs:	0 g/l
Recommended Spreading Rate Per Coat:	
• Horizontal Thin Build:	10.0 – 15.0 mils WFT
• Horizontal High Build:	Greater than 15 mils WFT
• Vertical System:	Less than 10 mils WFT
Actual Spread Rate:	Up to 160 sq. ft. per gallon
Application Viscosity:	65 KU catalyzed
Drying Schedule at 75° F:	
• To handle/walk on:	8 – 12 hours (depends on thickness)
• Dry for heavy usage/traffic/forklifts:	24 hours
• Full Cure/chemical resistance:	48 hours
Pot Life at 75° F:	45 minutes on the floor
Sweat-In/Induction Time:	5 minutes
Shelf Life:	2 years
Flashpoint:	>250° F
Thinner:	Do not thin

Performance Characteristics

Substrate Tested:	Concrete
Surface Preparation:	Water-reducible phosphoric acid and detergent blend
Application:	Direct to surface
Scrub Resistance: (ASTM D3359)	13,509 average cycles
Tensile Adhesion: (ASTM D4541)	200 – 600 psi Break occurred in the concrete; the coating itself did not delaminate from the concrete
Tabor Abrasion (IT):	<30 mg loss
Impact Resistance (IT):	30 in/lbs
Shore D Hardness (IT):	70
Tensile Strength (IT):	8,000 psi
Flexural Properties (IT):	No cracking of coating up to 10 mils Aluminum substrate – 180° bend
Flammability (IT):	Slow to non-burning once cured
Water Vapor Transmission: (ASTM E96)	0.24 perms
Chemical Resistance: (ASTM D3912)	Excellent – resistant to harsh chemicals (gasoline, diesel fuel, MEK, acetone, bleach)

Recommended Systems For HP-330

Horizontal Surfaces:	The wet film thickness (WFT) will depend on the look you are trying to achieve, the condition of the substrate and how thick the coating needs to be. The HP-330 can be used as a stand-alone product or as part of a multi-coat system with the HP-105 Clear or Pigmented products to provide enhanced UV protection and longer lasting aesthetic properties.
Concrete:	1 coat of HP-330 to desired thickness. The HP-105 or HP-300 can be used as a top coat.
Spalled / Pitted Concrete:	Patch all uneven surfaces with HP-330 to fill. Apply the HP-330 to desired thickness.
Steel Horizontal Surface:	1 coat of HP-330 to desired thickness.
Wood:	It is best to apply 1 coat of a sealer on the wood followed by 1 coat of the HP-330 to desired thickness. Allow the HP-330 to float across the surface.
Exterior Surfaces:	HP-330 can be applied outside but a topcoat of JFB's HP-105 or HP-300 is required to provide UV protection
Vertical Surfaces:	The HP-330 may be applied to vertical surfaces by brush or roller. The HP-330 should be applied in multiple coats under 10 mils WFT.

Application / Storage Conditions

Conditions	Material	Surface / Ambient	Humidity	Pot Life / Dry Time	Product Storage
Normal	65° – 85°F	65° – 85°F	35 – 65%	None	75° F
Minimum	55° F	55° F	0%	These temps increase dry to touch and full cure times	40° F
Maximum	85° F	100° F	75%	These temps decrease working pot life	90° F
Do not apply the products when the substrate temperature is less than 5° F above the dew point.					

Equipment

Thin Film System: Apply with a flat squeegee or 3/8" woven nap roller with a Phenolic core. Spike back roll.
(10 – 15 mils)

High Build System: Apply with a notch squeegee to desired film build. Spike back roll.
(15 + mils)

Vertical Surfaces: Brush or roll
(less than 10 mils)

Mixing Instructions (Ratio is 3:2 – A:B)

Combine the pre-measured component Parts A and B together. Use a low speed mixer with a Jiffy Blade and mix together for 3 minutes ensuring that they are thoroughly blended. The mixture has a 5 minute induction time prior to use. After the 5 minute induction time, for optimum pot life, pour the contents out of the can onto the floor and spread evenly.

Pot Life: 45 minutes on the floor
Induction Time: 5minutes
Reducer: None
Clean Up: Xylene or Acetone

THIS PRODUCT IS TO BE USED BY THOSE KNOWLEDGEABLE ABOUT PROPER APPLICATION METHODS. THIS PRODUCT IS FOR INDUSTRIAL USE ONLY. Read each component's Material Safety Data Sheet (MSDS) before use. Mixed materials may have the hazards of each individual component. Safety precautions must be strictly followed during storage, handling and use.

Surface Preparation

Steel: Remove all loose rust, dirt, grease or other contaminants per SSPC-SP1, SSPC-SP2 and SSPC-SP3 (e.g., low or high pressure with cleaner).

Aluminum: Remove all oil, grease or soap film with a neutral biodegradable detergent or emulsion cleaner per SSPC-SP1.

Galvanized Metal: Remove all oil, grease or soap film with a neutral biodegradable detergent or emulsion detergent per SSPC-SP1. Rusty galvanized steel requires a minimum of SSPC-SP2 surface prep.

Concrete / Masonry / Concrete Blocks: Surfaces must be clean, dry, sound and offer sufficient profile to achieve adequate adhesion. Minimum substrate cure is 28 days at 75° F. Mechanically remove all release agents, curing compound and aged membranes from concrete floor surface. Remove all salts, efflorescence, laitance and other foreign matters by suitable chemical means. If concrete is contaminated with oils, grease, or other chemicals, they must be removed by cleaning with a strong detergent. Perform ASTM D-4263 Moisture Test before applying to concrete floors.

Wood: Sand new wood to remove any surface contaminant and to lower grain. Apply a sealer before applying the HP-330 to desired thickness.

Previously Painted Surfaces: Properly clean the surface of all dust, dirt, grease and foreign matter. Smooth, hard, dense and glossy surfaces may require abrading. Apply a test patch of the HP-330 to ensure adhesion. If improper adhesion or the previous coating delaminates from the substrate, consult your JFB Hart Coatings sales representative for the proper preparation and coating system.

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