TECHNICAL DATA SHEET

PCU-325

Solvent Borne Acrylic Polyurethane Hybrid Sealer

Paramount Coatings – PCU-325 Solvent Borne Acrylic Polyurethane Hybrid Sealer is a UV resistant, two-component primer and economical finish. It is available in Clear Gloss and Clear Satin Finishes. To obtain a satin finish, place Clear Satin coat over Clear Gloss. It is a unique polyurethane that has an infinite recoat window, requiring only that the surface be clean to recoat. Use as a concrete primer for No. 300 Solvent Borne Aliphatic Polyurethane Sealer. It meets RED VOC regulations.

COLOR
Clear Gloss
Clear Satin

FEATURES
- Complies with USDA, FDA, Food Safety Modernization Act.
- With the Correct Aggregate it Meets Slip Resistance (ADA) for flat and incline surfaces.
- LEED® and Green Seal® requirements.
- FED VOC and EPA Compliant.
- Cures to an inert finish.
- Use as a primer for PCU-300
- Designed for new floors and for resurfacing old floors.
- UV stable

LIMITATIONS
- This product is best suited for applications in temperatures between 60^0F to 90^0F (16^0C to 32^0C) and when the humidity is below 85%.
- Higher temperatures will result in shortened working time and faster drying time.
- Color may vary due to batch to batch variation, always "box" different batches to avoid color differences.
- Do not use as a primer when concrete slab exceeds ASTM F1869 3 lbs. or ASTM F2170 80% RH.

USES
Prime and Finish Coat
- Use as a primer for PCU-300
- Use PCU-325 Clear Gloss as a primer for PCU-325 Clear Satin
- Ideal sealer for textured or irregular concrete or cementitious overlays since it can be re-coated without abrasion
- Residential Interiors and Garage Floors

COVERAGE RATE PER GALLON
- Clear Gloss: 300 to 400 sq. ft. (27.9 to 37.2 sq. m) WFT 4 to 5.3 mils (0.10 to 0.14 mm)
- Clear Satin must be placed over Clear Gloss at 350 to 450 sq. ft. (32.5 to 41.8 sq. m) WFT 3.6 to 4.6 mils (0.9 to 0.12 mm)

CHECK CONCRETE MOISTURE
Concrete must be dry before application of this floor coating material. Concrete moisture tests are required, either ASTM F1869 (calcium chloride) or ASTM F2170 (in situ RH probe).

TEMPERATURE and HUMIDITY
Floor and material temperature must be at or above the published Technical Data Sheet requirements. Relative Humidity must be 5^0F (3^0F) below the dew point. Do not apply if humidity is at or above 85%.

SURFACE PREPARATION
Surface preparation in accordance with: ICRI Guideline No. 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair. The pH of the concrete substrate should be at 9 or above. All bond-breaking material must be removed.

APPLICATION EQUIPMENT
Depending on system applied: Disposable 3" brush for cutting in, variable low speed drill (450 rpm) with Jiffy® type impeller mixing paddle, 3/8 inch nap non-shedding phenolic core roller and V-notched rubber squeegee for spreading neat polyurethane.

MIXING
Mix Ratio 2:1. For ease of mixing and placement, the temperature of the "A" and "B" components should be between 70^0F to 80^0F (20^0C to 26^0C). Pre-mix the "A" and "B" components to ensure all raw material and pigments are dispersed uniformly.

PARAMOUNT COATINGS

TECHNICAL DATA SHEET

PCU-325

Solvent Borne Acrylic Polyurethane Hybrid Sealer

Packaging 1.5 gal, 3 gal, 15 gal. (5.7 lt, 11.4 lt., 56.8 lt.)

APPLICATION

After mixing all contents as instructed, brush, roller, or airless sprayer PCU-325. If rolling the material, use a 3/8 inch nap roller cover, work out of a larger pail or roller pan using the dip and roll method. Do not pour the material onto the floor. Because the material dries quickly, apply liberally and work small areas. Application rate should be 200-300 sq. ft. per gallon. Do not over-apply or allow to puddle as solvent entrapment may occur.

SKID-RESISTANCE

Skid-Resistance – Field (in situ) Wet Dynamic Coefficient of Friction (DCOF), ANSI A326.3.

CLEAN-UP

Clean-up mixing station, tools and equipment as required. Use acetone, a VOC exempt solvent, for cleaning up. Observe all legal, and health and safety precautions when handling or storing solvents and materials, particularly in confined spaces. Make sure the working areas are well ventilated at all times during placement and curing time.

PHYSICAL PROPERTIES 77°F (25°C)

VOC (Volatile Organic Compounds), (VOC Calculated Per ASTM D3960)	<400 gr./lt.
Viscosity, Mixed	250 cps
Solids Content, by weight	38.5%
Mix Density, Mixed	9.2 lb./gal
Pot Life,1 gallon (3.79 liters) Mass, Pot Life is Reduced by Increases in Mass & Temperature	45 Minutes
Mix Ratio, by Volume	2:1
Minimum Application Surface Temperature	50^0F
Dry to Touch 50^0F to 90^0F (10^0C to 32^0F)	2 to 6 Hours
Recoat Time 50^0F to 90^0F (10^0C to 32^0F)	6 to 12 Hours
Light Traffic 50^0F to 90^0F (10^0C to 32^0F)	24 Hour Minimum
Full Cure 50^0F to 90^0F (10^0C to 32^0F)	4 to 7 Days
Shelf Life (shipped and stored) at 40^0F to 100^0F (4.4^0C to 38^0C)	1 Year

MECHANICAL PROPERTIES 77°F (25°C)

Surface Preparation ICRI Guideline No. 310.2R – Concrete Surface Profile (CSP 2 and above) Depending on System to be Installed and Condition of Concrete.	
Gloss Index, 60 Degrees Clear Gloss, ASTM D523	90 - 95
Gloss Index, 60 Degrees Clear Stain, ASTM D523	40 - 70
Adhesion, ASTM D7234, Concrete Failure	>400 psi
Tensile Strength, ASTM D882	5,000 psi
Tensile Elongation, ASTM D882	10%
Pencil Hardness, ASTM D3363	3H
Abrasion Resistance, ASTM D4060 1,000 cycles, Wheel No. CS17, 1000 gr. Load	0.05 gr.
Flexibility, Bend Mandrel Coating Test, ASTM D522	Pass 1/8 Inch
Flame Test, ASTM E648, Bonded to Concrete	Class 1
Flammability, ASTM D635, Bonded to Concrete	Self-Extinguishing
Microbial (fungi) Resistance, ASTM G21 (Without the Anti-Microbial Agent)	Pass #1
Wet Dynamic Coefficient of Friction, ASNI 326.3 Depends on texture of system selected, ranging from smooth or aggressive. Measured with BOT 3000E equipment.	>0.45 (inclines) >0.42 (level)
Moisture Vapor Emission Rate, ASTM F1869*	3 lbs.
Moisture Relative Humidity, ASTM F2170*	80% RH
*If moisture or relative humidity exceeds the limits consult the Paramount Coatings representative.	
Note: Although testing is critical, it is not a guarantee against future problems. This is especially true if there is not a positive side vapor barrier or it is not functioning properly and/or concrete is contaminated from oils, chemical spills, densifiers, excessive salts or other bond breakers.	

PCU-325

Solvent Borne Acrylic Polyurethane Hybrid Sealer

DISCLAIMER:

Please read all information in the Safety Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. Paramount Coatings Products are for **"Professional Use Only"** and preferably applied by professionals who have prior experience with the Paramount Coatings Products or have undergone training in application of Paramount Coatings Products. Published technical data and instructions are subject to change without notice. Contact your local Paramount Coatings representative or visit our website for current technical data, instructions, and project specific recommendations.

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Paramount Coatings makes no claim that these tests or any other tests, accurately represent all environments.

LIMITED WARRANTY

There is NO WARRANTY exists if the buyer has not met the Paramount Coatings Terms and Conditions of Sales. Paramount Coating warrants its products to be free of manufacturing defects and that they will meet Paramount Coating current published physical and chemical properties. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by Paramount Coating of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product Paramount Coating shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Paramount Coating shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Paramount Coating reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.