

PPC HP SELF-LEVEL UL

PRODUCT TECHNICAL DATA SHEET

PPC HP SELF-LEVEL UL is an ASTM E84 Fire and Smoke Class A Certified, fast setting (2-4 hours), walkable (4- 6 hours), pre-sanded, single component (just add water), polymer enhanced, Portland and Hydraulic cement and proprietary additive self-leveling underlayment or base coat mix. SELF-LEVEL UL is used to create smooth flat and level surfaces for the installation of various flooring types, or the repair or leveling of low spots in concrete substrates. SELF-LEVEL UL creates a strong physical & chemical bond to a concrete substrate with the use of PPC EPOXY 100.

WHERE TO USE

- Residential Floors
- Concrete Slabs
- Tile Installations
- Vinyl Floor Installations
- Hardwood Installations
- Retail Stores
- Restaurants
- Offices
- High-Traffic Areas
- Warehouses
- Manufacturing Facilities
- Hospitals / Clinics
- Schools
- Epoxy Terrazzo
- Decorative or industrial-style polished floors

ADVANTAGES

- Creates a perfectly flat and smooth surface
- Fast application
- Application Flexibility, i.e., can be poured or pumped
- Quick curing/turnaround
- High compressive strength
- Correct uneven or damaged substrates
- Compatible with many floors finishes
- Thin or thick applications
- Pre-Sanded Mix in 50 lb. Bags
- Improves adhesion of floor coverings
- Reduces risk of flooring failures
- Can meet sound and fire rating assemblies
- Water based and water clean up
- Can apply flooring and overlays over it
- Consistent Sand Color... Not salt & pepper
- Does not use Gypsum so it gets hard and stays hard
- Contributes to USGBC credits under LEED rating system
- Can be used indoors or outdoors
- Can be integrally colored

COVERAGE RATES

Each set of PPC HP SELF-LEVEL UL will cover approximately as follow:

1. 3 sf for 2" thickness - 4 sf for 1.5" thickness
2. 6 sf for 1" thickness - 8 sf for 3/4" thickness
3. 12 sf for 1/2" thickness - 16 sf for 3/8" thickness
4. 24 sf for 1/4" thickness

SHELF LIFE AND STORAGE

If properly stored, the expected shelf life can exceed 6 months. However, it is recommended that product be used as soon as possible after delivery. Rotate stock to use oldest inventory first. Store under roof and keep dry.

PACKAGING and COLORS

Packaging: PPC HP SELF-LEVEL UL is packaged in 50 lbs bags.

MIX RATIO

DO NOT mix portions lower than those contained in the COMPLETE BAG. Add approximately 5.5 to 6.5 quarts (5.2 to 6.15 liters) of water per every 50 lb (22.68kg) bag of PPC HP SELF-LEVEL UL

PHYSICAL CHARACTERISTICS

Compressive Strength (102).....10,246 psi after 28 days

Flexural Strength (ASTM C-78)720 psi

Adhesion (MIL-D-3134)405 psi

Water absorption3.9%
(ASTM C-624)

Indentation Characteristics.....94%
(Steadily applied Load)
MIL-D-3134, Para 4.7.4.2.1

Impacted Load.....0.004"
(Steadily applied Load)
MIL-D-3134, Para 4.7.3

Tensile Strength (ASTM C-190).....766 psi

Resistance to Elevated Temperatures....No flow or slip
MIL-D-3134, Para 4.7.5.1

Abrasion Resistance0.37"
ASTM C779

Coefficient of Thermal Expansion..... 6.8 x E-05
ASTM C 531

Flammability
ASTM E162 Flame Spread Index.....0.42
Smoke Deposited.....Less than 0.1 mg
ASTM 84. Flame Spread Rate.....0
Smoke Density Factor.....3
Fuel Contribution Rate.....0

Slip Resistance (Coefficient of Sliding Friction)

On smooth, non-textured finish with no sealer:

NOTE: Slip Resistance is more related to the type of finish and sealers used, rather than the Product itself

Dry Leather 0.43

Dry Rubber 0.59

Wet Leather 0.68

Wet Rubber 0.70

OVERVIEW OF INSTALLATION STEPS

Mandatory Mockup: A 100-200 sq/ft mockup should be installed as a guide for installation and quality control panel days or weeks before the actual installation of the coating system. The mockup should be approved by an authorized representative of the Property Management for Slip Resistance, aesthetics, and functionality.

Substrate: PPC HP SELF-LEVEL UL is suitable for application over concrete, wood, tile or metal. Not recommended on asphalt or painted surface.

Substrate preparation: Proper preparation is critical to ensure an adequate bond. The substrate must be dry and free of grease, fats, oil and laitance. Totally enclosed shot blasting or scarification. The surface must show an open textured surface like a 30-grit sandpaper or CSP 2-3.

Priming: PPC EPOXY 100 as primer may be necessary for applications of PPC HP SELF-LEVEL UL over porous substrates. The primer system must be cured to a tack-free state before applying PPC HP SELF-LEVEL UL

Mixing: NOTE: Start by adding water to container, then add dry mix. Then mix PPC HP SELF-LEVEL UL 50 LB Bag with cool, clean potable water. **WATER REQUIREMENTS:** Add approx. 5.5 to 6.5 Quarts (5.2 to 6.15 Liters) of water per 50# (22.68kg) bag, with 6 being the sweet spot in most climates, but be prepared and test first as more water may be required if pumping.

NOTE: Add ½ OZ (1 Tablespoon) Cream of Tartar or Tartaric Acid (found in any grocery store) per bag to increase working time up to 30 minutes and to keep the hydraulic cement components from kicking too early. Adding Cream of Tartar may help slow down (retard) the mix if PPC HP SELF-LEVEL UL is being pumped or mixed in multiple bag batches or in extreme heat situations.

NOTE: Only apply over a clean properly prepped and Primed substrate.

NOTE: More/Less water may be required depending on air temp., humidity, water mineral content as water chemistry varies by location. Mix for 3-5 minutes with mechanical mixer. After all dry material has been added to water. Do not false set, use immediately.

Working time PPC HP SELF-LEVEL UL has a working time of approximately (10-18 minutes depending on temperature, climate, etc., if you have not extended the working time with Cream of Tartar

Hardening Time PPC HP SELF-LEVEL UL has the following hardening times 86F

- Set time is 2.- hours.
- Walkable in 4 – 6 hours
- Floor coverings 4 – 8 hours (non-moisture sensitive).
- Floor coverings 16-24 hours (moisture sensitive).
- Driveable in 24-48 hours.

Application:

1. Material must be used immediately after mixing.
2. Pour or pump mix onto stable substrate. Due to mix surface tension, you may need to push or screed or use a porcupine roller on the mix to break the surface tension on leading edges and throughout the mix to keep it flowing until it reaches all barriers.
3. Add aggregate for deeper fill.

LIMITATION

- **PPC HP SELF-LEVEL UL must be used with PPC EPOXY 100 as the primer coat.**
- PPC HP SELF-LEVEL UL must be installed over a stable substrate using proper preparation and installation procedures.
- All loose materials, or materials that are likely to come loose, must be removed from substrate before product is applied to reduce the risk of delamination.
- All expansion/cut joints in the existing substrate must be honored. Extra joints may be added as deemed necessary by the installer.
- Surface tension may cause products to stop flowing, making sure to break surface tension during application until product reaches all barriers and starts to self-level.
- Do not over water.

- Can use up to ½ OZ Cream of Tartar per bag as a retarder to increase working time. Using too much cream of tartar may cause mix to not set for many hours.

LIMITED WARRANTY

PPC warrants its products to be free of manufacturing defects and that they will meet PPC current published physical properties. PPC warrants that its products, when properly installed by a state licensed contractor according to PPC guide specifications and product data sheets over a sound, properly prepared substrate, will not fail for a period of 12 months. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by PPC of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. PPC 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. PPC 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. PPC reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER

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 users 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 PPC makes no claim that these tests or any other tests, accurately represent all environments. For further information please contact us at the following email address:

orders@premierprotectivecoatings.com

or visiting

www.premierprotectivecoatings.com

DISPOSAL

Any surplus material, should be combined and allowed to cure. Upon curing, the product can be disposed of without any restrictive conditions. Uncured materials should be securely stored in an appropriate sealed container and disposed of in strict adherence to the applicable provincial, state, municipal, and federal regulations.

CAUTION

ALWAYS KEEP OUT OF THE REACH OF CHILDREN

KEEP FROM FREEZING CONDITIONS

INTENDED FOR INDUSTRIAL USE ONLY.