POLYASPARTIC 100 SLOW CURE

PRODUCT TECHNICAL DATA SHEET

PPC Polyaspartic 100 Slow Cure is a two-component, 100% solids, VOC-compliant aliphatic polyaspartic coating formulated with an extended working time for use as a UV-stable flooring topcoat. It delivers an exceptional finish along with superior resistance to chemicals, UV exposure, and solvents. The system also provides excellent physical and performance properties and complies with the requirements of the Canadian Food Inspection Agency (C.F.I.A.). When **Premera FP1 Fusion Primer** is included, minimal surface preparation is required on sound and stable surfaces, no shotblasting, no grinding or scarifying is required.

WHERE TO USE

- Pharmaceutical plants and warehouses.
- Healthcare facilities and research laboratories.
- Drug manufacturing facilities.
- Prisons and correctional buildings.
- Production and assembly plants.
- Food and wineries processing factories.
- Kitchen and restrooms spaces.
- Educational institutions and corporate offices.
- Shopping and retail complexes.
- Storage facilities and display areas.
- Vehicle repair shops.
- Community spaces.
- Hallways and walkways.
- Residential and commercial projects such as quartz/flakes systems.
- Protective topcoat for cementitious overlays and microtoppings.

ADVANTAGES

- UV-stable topcoat with excellent long-term performance
- Superior resistance to chemicals and solvents
- Excellent weathering and abrasion resistance
- Non-yellowing formulation with outstanding gloss retention
- Simple **1:1 mixing ratio by volume**
- Virtually odor-free, making it suitable for indoor applications
- Excellent adhesion to properly prepared substrates and compatible, sound existing coatings

THEORETICAL COVERAGE RATES

175 – 200 sq.ft. per gallon at (8 - 10 WFT)

PACKAGING & COLORS

Kit Sizes: 2 US gal (16.6lb net) & 10 US gal (83lb net)
Part A: 1-gal, 5-gal & Part B: 1-gal, 5-gal.
Available in clear, universal color packs available.
Refer to PPC color chart.
Color: PART A: Clear
PART B: Clear to Amber

MIX RATIO

PPC Polyaspartic 100 SC mix ratio is 1A:1B, meaning one part A (resin) to one part B (hardener) by volume.

SHELF LIFE AND STORAGE

12 months from the date of manufacture in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.

PHYSICAL/CHEMICAL CHARACTERISTICS

70°F / 21°C & 50% R.H.

Solids content, by volume	100%
Application Temperature	59-86 °F (15-30 °C)
Min Substrate Temperature	59 °F (15 °C)
Thinner Recommended	Xylene
Pot Life @ 70ºF	10-15 minutes
Working time	30 - 40 minutes
Tack Free	6 - 8 hours
Light Foot Traffic	6 - 12 hours
Heavy Traffic	24 hours
Full Cure	7 Days
Recoat window	6 - 12 hours
Compressive Strength ASTM D 695	9,000 – 10,000 psi
Tensile Strength ASTM D 638	7,000 – 8,000 psi
Fire Rating ASTM E84	Flame Spread:5 Smoke Dev:94
Hardness (Shore D): ASTM D2240	75-78
Abrasion Resistance	30 mg loss ASTM D 4060 (CS-17 Wheel, 1,000 g load, 1,000 cycles)
Water Absorption: ASTM D570	0.2%
Flexibility, 1/8" Mandrel ASTM D1737	Pass
Gloss ASTM D523	95+

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

Surface Preparation: When used on concrete, tile, or existing coatings, if surface is clean and free of bond breakers such as oils, greases, etc., no grinding or surface profile is needed when **Premera FP1 Fusion Primer** is used. Otherwise, traditional grinding, shotblasting or surface mechanical preparation is needed (minimum of CSP-2 or higher). It is highly recommended to create a sampling area before the start of the project. The test should be conducted on-site, using the method suggested by Premier Protective Coatings Group, to ensure proper adhesion and color. A sampling area should also be conducted on existing coatings to determine if there are contaminants or if delamination will occur.

- ✓ Dry - No wet areas (<4% moisture content).
- ✓ Clean - Remove contaminants, dust, grease, delaminated coating, laitance, or any other substances that may reduce or prevent proper adhesion.
- ✓ Profiled - Mechanically profiled surface CSP2-4 (ICRI).
- ✓ Sanitized - Repair all cracks and chipped areas. Concrete preparation must be carried out by mechanical means such as shot blasting, grinding, sandblasting, or any other method approved by Premier Protective Coatings Group.

Cavities, cracks, and imperfections will be visible in the coating if the concrete is not properly repaired. Use **PPC Epoxy Crack Repair** to smooth out and fill any concrete voids, pinholes, or other imperfections on the surface. Once the material has hardened, correct any imperfections through diamond grinding.

Another option will be to use **PPC 421 Hybrid Polyurea Polyurethane** as a grout coat to fill scratches, pinholes, or cracks over the concrete. Once the material is dry you can apply your next coat right on top of it within the 24hr recoat window.

Mixing: Typically, mixing two gallons of PPC Polyaspartic 100 SC at a time is ideal for application. Mix using a drill and a mixing paddle. Note: if using a drill mixer, use a low speed (not exceeding 300 rpm) to avoid trapping air:

- Add 1 gallon of Part B to the pre-mixed 1 gallon of Part A and mix for an additional 3 minutes keeping the mixing head fully immersed at all times. At least once when mixing, stop to scrape down the sides and bottom of the pail to ensure thorough blending of both components. If not mixing full units, each component must be pre-mixed individually ensuring uniformity prior to use.
- PPC Polyaspartic 100 SC is designed to be poured directly onto the floor. Allowing the mixed product to sit in the container will significantly reduce working time. Once poured on the surface, you can generally expect 30 - 40 minutes of working time.

Application: Pour out mixed PPC Polyaspartic 100 SC in a large ribbon across the properly primed concrete surface or other type of substrate. Spread evenly with a flat squeegee, and back-roll with a 10 mm - 3/8" lint free roller, roll the coating evenly forward and backward to achieve mil consistency. Consider the use of roller cage end caps for precision gauging millage and minimal waste.

FOR BEST RESULTS

- To mitigate potential issues due to air expansion in porous concrete, particularly in the morning when temperatures rise, it is advisable to apply the coating at lower temperatures. Hence, the safer practice is to apply coatings later in the day, particularly for exterior projects. The ambient temperature is ideally within the range of 59°F to 86°F (15°C - 30°C) during the application.
- If there is a need for additional protection against chemicals, abrasion, or slipperiness, do not hesitate to consult your representative from our company for tailored recommendations.
- Spray down **Premera T2 MCM** topcoat to provide an even superior resistance to harsh chemicals, abrasion, mold, mildew, moss, chlorides & salt spray, acid rain, UV damage, oxidation, animal & bird waste damage, gum, and graffiti.
- Always protect materials from excessive heat and cold, and pre-condition to room temperature as necessary.
- Regularly check wet film thickness with mil gauge and monitor consumption to ensure correct application rates are obtained.
- The proper application of this product is the sole responsibility of the end user. Job site visits by PPC representatives are only for the purpose of making recommendations, and do not assume any liability for supervision or quality control.

LIMITATIONS

- Acceptable moisture emissions for concrete are 3 lbs. per 1,000 SF over a 24-hour period (<4%) based on a calcium chloride test.
- RH test results should be below 85% according to ASTM F2170. If moisture is above this level, blistering and coating delamination may occur.
- Use **PPC Moisture Vapor Barrier** epoxy moisture mitigation primer over concrete substrates that have MVT emissions that exceed the limits described above.
- Coating systems are prone to cracking if the concrete shifts or separates under the coating. Therefore, joint and crack treatment should be reviewed before coating application.
- Concrete must be minimum age of 21-28 days, depending on curing and drying conditions.

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, including both Part A and Part B components, 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