

PPC POLYASPARTIC 70

PRODUCT TECHNICAL DATA SHEET

PPC POLYASPARTIC 70 is a stand above all, two component polyaspartic aliphatic polyurea utilizing innovative proprietary nanotechnology. It provides a high gloss clear coating. Its superior penetration and bonding strength can provide years of abrasion, impact, and wear resistance. It yields chemical splash and spill resistance and hot tire pick-up resistance much like its epoxy counterpart.

WHERE TO USE

- Excellent long term wear capabilities allow for longer life without re-coating.
- Quick dry time provides unmatched labor saving capabilities above epoxies and polyurethanes
- UV stability allows this to be used in areas saturated by the sun throughout the day.
- Can be tinted for solid color applications with PPC Universal Color Packs

ADVANTAGES

- Easy application with roller for no roller streaks.
- Excellent penetration and adhesion to clean, unsealed new or old concrete.
- Non-yellowing, high gloss finish.
- Can be applied as a reseal over previously sealed concrete surfaces previously sealed with acrylic sealers (test for compatibility first).
- Useful for decorative concrete and cure and seal applications.

THEORETICAL COVERAGE RATES

- First Coat - Direct to Concrete: 200-300 ft² per gallon
- Second Coat - Over Existing Coating: 250-350 ft² per gallon
- Over Media Broadcast Systems: 100-175 ft² per gallon

*Coverage rates may vary depending upon surface porosity, texture, media size, application method and prior coating application. Excessive build up should be avoided.

PACKAGING & COLORS

Available in 2 gallon containers

Available in clear, universal color packs available.

Refer to PPC color chart.

Color: PART A: Clear

PART B: Clear to Amber

Tinting:

Tint with PPC Universal Color Packs (refer to TDS prior to use), 9-16 oz. per gallon is suggested for a solid, opaque finish. Always add color to Part A and drill mix for 2-3 minutes prior to blending A and B. Color may settle during long term storage and be difficult to redistribute. Always test for color acceptance prior to full application. Multiple coats may be necessary for total opacity.

MIXING

If mixing less than a full kit, mix Part A and Part B separately with a stir stick, low speed mixer or vigorously shake containers prior to measuring out the smaller kit to ensure uniform distribution of all ingredients. In a clean mixing container, blend 1 Parts A and 1 Part B using a drill mixer for 2-3 minutes. Avoid creating a vortex in the material which could introduce air and/or moisture content to the mixture. Do not mix more than can be applied within the usable pot life time frame. DO NOT THIN!.

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.

SPECIFICATIONS / COMPLIANCES

COF WARNING: OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces.

The current coefficient of friction required by ADA is 6 on level surfaces and 8 on ramps. PPC Premier Protective Coatings. recommends the use of slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. PPC Premier Protective Coatings. nor its sales agents will be responsible for injury incurred in a slip and fall accident. For interior floors subjected only to foot traffic, Aluminum oxide may be used as an acceptable slip-resistant coating as it meets requirements for ASTM D2047. Dried coating is USDA accepted

PHYSICAL/CHEMICAL CHARACTERISTICS

Solids/Active Content, Percentage by weight 70% +/- 1%

Pot Life 20-30 minutes

Dry Time-Tack Free: 2-3 hours

Dry Time - Foot Traffic: 3 hours - 4 hours

Dry Time - Heavy Traffic: 24 hours

Re-Coat Time Window: 2-18 hours

Application Temperature: 50°F-80°F

VOC (Volatile Organic Compound) Content:
Less than 400 grams/Liter mixed A&B

Appearance - Wet: Clear (May show slight haze)

Appearance - Dry: Clear and Medium/High Gloss

Information above is based on lab temperatures of 70-72°F at 50% RH. Using this product outside these conditions may affect the accuracy of the information above. Always test prior to use.

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

Moisture Testing:

Concrete floors, especially those not poured over a proper vapor barrier (plastic), are subject to possible moisture vapor transmission which may result in bubbling and/or failure of high performance coatings. Basic moisture testing can be performed by placing a 4' x 4' sheet of plastic on

the concrete surface and securely taping it down on all edges. If after 24 hours the concrete is still dry below the plastic, the surface should be ready to coat. If moisture is present, the coating applicator should perform calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions are present before applying any coatings.

Surface Preparation:

The concrete surface must be deemed mechanically and structurally sound, thoroughly clean of debris and completely dry. Concrete must be fully cured a minimum of 28 days. It is recommended to prepare the concrete surface by mechanical means such as shot blasting or diamond grinding with 30 grit or coarser diamonds to achieve a CSP-2 to CSP-3 profile. Vacuum concrete surface several times until dust thoroughly removed. If applying over an existing, fully bonded coating that is outside its recommended recoat window, the surface should be sanded thoroughly with a 60-120 grit sanding screen until the surface is completely dulled with scratches. Vacuum dust thoroughly, rinse with clean water and remove excess water with a wet/dry vacuum or floor scrubber. Allow surface to dry completely prior to application of coating. Where applicable and with adequate ventilation, wipe the surface with acetone and a microfiber dust mop.

CAUTION: Acetone is extremely flammable! If using acetone follow all safety precautions, make sure no pilot lights, open flames, sources of static electricity, sparks or extreme heat sources are present. Use recommended personal protection for acetone.

If mechanical means of preparation are not suitable, it is recommended to prepare the surface with 4 parts water to 1 part muriatic acid. This preparation method is only suitable for completely un-sealed, bare concrete surfaces. Apply acid solution evenly on the surface using brushes, mops, brooms or an approved floor scrubber and keep wet on the surface of 10-15 minutes. Remove excess acid solution with a wet/dry vacuum or floor scrubber. Rinse surface thoroughly with clean water and on the final rinse to neutralize the surface pH. Inspect the floor to ensure the surface has reached an even and adequate surface profile. Repeat the acid etch and neutralizing steps as necessary to achieve correct profile. Allow the floor to dry thoroughly for 24-72 hours prior to applying this product. ALWAYS use proper personal protective equipment when working with muriatic acid.

Substrate, air and material temperatures must be no less than 50°F and not exceed 80°F. If applied outside these limits the coating may not achieve adequate film formation and may have excessive air entrapment, bubbles, blushing or hazing. Please note that higher substrate, air and material temperatures as well as excessive humidity may speed the cure rate of this product. Cooler temperatures and lower humidity may slow the cure rate of this product.

FOR PERSONAL PROTECTION USE GLOVES, GOGGLES, RESPIRATOR AND OTHER NECESSARY PPE. REFER TO SDS PRIOR TO USE!

Application:

APPLICATION: OVER SMOOTH SURFACES: Using a brush and/or 3/8" nap shedless roller, dip and roll the mixed material from a roller pan. 18" rollers are recommended for any surface to speed up application time and reduce roller marks. Start by placing the wet roller at one corner of an approximate 4'x4' square and roll the material at an angle to opposite corner applying no pressure to the roller. Spread the material across only that square and immediately back-roll to even out material and roller lines. Adjust the size of your square as needed based on the amount of material being applied with the roller. After finishing the square, move on to the

next square using the same technique. While applying keep a wet edge to prevent roller marks. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. Apply the mixed material within the usable pot life time frame. If the material becomes thick while applying and sticking to the roller, stop applying and discard the mixed material. At this point it has reached the end of the usable pot life. Do not allow to puddle! Use a brush to remove excess coating in joints. An airless or HVLP sprayer may also be used. **OVER CHIP SYSTEM SURFACES:** Apply the mixed material by pouring directly over flake and spreading evenly with a flat, flexible squeegee and backroll using a 3/8" nap, shed-free, phenolic core roller. Always fill the roller cover in a puddle before beginning to back roll. Apply evenly at a rate of 100-175 square feet per gallon, always keeping a wet edge. Do not allow to puddle. Use a bristle brush to remove excess coating in joints.

Recoating:

If possible, recoat within the suggested recoat window located on page 1. Apply additional coats in the same manner as the first coat. Note that higher substrate, air and material temperatures as well as excessive humidity may greatly reduce the acceptable recoat window of this product. When working in higher temperatures, always recoat as early in the recoat window as possible to avoid failure between coats. If recoating outside the suggested recoat window (see page 1) or beyond 24 hours, sand using a 60-120 grit sanding screen to ensure adequate adhesion between coats. If recoating over a textured media broadcast system outside the recoat window it is suggested to use a Rotary Grit Brushes or Premera FP1 Fusion Primer to prepare the surface. Vacuum dust thoroughly, rinse with clean water and remove excess water with a wet/dry vacuum or floor scrubber. Allow surface to dry completely prior to application of coating. Where applicable and with adequate ventilation, wipe the surface with acetone and a microfiber dust mop.

CAUTION: Acetone is extremely flammable! If using acetone follow all safety precautions, make sure no pilot lights, open flames, sources of static electricity, sparks or extreme heat sources are present. Use recommended personal protection for acetone.

PLEASE NOTE: Applying material outside the suggested parameters may result in product failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc. When applying, adhere to suggested coverage rates. Applying too thin of a coating may cause inadequate film formation, limited performance expectations and/or undesirable finish.

Applying too thick may result to bubbling, hazing, etc. **DO NOT USE ON BRICK.**

FOR BEST RESULTS

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Clean-up: Use xylene. Dispose of containers in accordance with local, state and federal regulations.

Product Removal: Dried, cured sealer may be removed with a commercial paint stripper, such as Nock-Off or by using a diamond grinding method, sandblasting method or similar mechanical action.

LIMITATIONS

- This product will not freeze during storage, however, allow temperatures to rise to 50°F prior to application.
- All HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed.
- If using indoor, use proper ventilation while applying and for hours after application to ensure fumes are removed.
- It is not recommended to apply product over carpet, tile, or other types of floor adhesives.
- This product performs best when applied as one or two medium-light coats, not one heavy coat.
- Please be aware that this product when cured may be slippery when wet. An anti-slip additive, such as Aluminum Oxide, can be added to reduce slip hazards.
- All new concrete must be cured for at least 28 days prior to application.
- It is not recommended to thin product. Improper thinning may cause coating to delaminate in a short time frame and other performance issues.
- This product may darken the surface of many new and existing concrete slabs. Test prior to use.
- Physical properties listed on this technical data sheet are typical values not specifications.
- Solvent vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition source locations distant from material handling point.

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