ALIPHATIC URETHANE TOPCOAT 60%

PRODUCT TECHNICAL DATA SHEET

PPC ALIPHATIC URETHANE TOPCOAT 60% is a high-performance, two-component, low-VOC aliphatic polyurethane coating engineered to provide exceptional durability and long-lasting surface protection. Formulated with excellent abrasion and chemical resistance, superior hot tire resistance, and outstanding UV stability, it delivers a durable, protective finish. **Aliphatic Urethane Topcoat 60%** is specifically designed as a high-performance topcoat for commercial and industrial concrete flooring systems, providing reliable protection and long-term performance in demanding environments. 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

- Aircraft hangar floors.
- Laboratories, pharmaceutical health care facilities.
- Protective finish coat for cementitious overlays & micro-toppings.
- Distribution centers, manufacturing, and warehouses facilities.
- Lobbies, shopping malls, automobile dealerships and gyms.
- Retail, restaurants, cafeterias, and food service flooring.
- General protective coating for high traffic service conditions.
- Transportation and loading docks.
- Wine and spirit processing plants.
- Prisons and correctional buildings.
- Stadiums and arenas.

ADVANTAGES

- UV-stable topcoat
- Long pot life
- Respectable odor
- Superior chemical resistance (compared to standard epoxy)
- Excellent chemical and abrasion resistance
- Light stable and good gloss retention
- VOC complaint
- Outstanding scratch resistance and cleanability
- Excellent for interior and exterior exposure conditions
- Minimizes floor care and maintenance costs
- High crosslinking density – hot tire resistance

COVERAGE RATES

First Coat - Direct to Concrete: 250 - 350 ft2 per gallon
Second Coat - Over Existing Coating: 250 - 350 ft2 per gallon

PACKAGING and COLORS

Packaging: 3 US gal (11.35 L)
Available in clear.
Finishes: Gloss.

MIX RATIO

PPC Aliphatic Urethane Topcoat mix ratio is 2A:1B, meaning two parts A to one part B by volume.
A: B = 2: 1.

SHELF LIFE AND STORAGE

12 months 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° - 72°F at 50% RH.

Solids/Active Content, % by weigh.....t....60% +/-1%

Pot Life.....20-30 Minutes

Dry Time - Tack Free..... 4 hours - 6 hours

Dry Time -Foot Traffic.....24 hours

Dry Time - Heavy Traffic.....3-5days

Re-Coat Time Window.....10 hours-24 hours

Application Temperature.....50° F -80° F

VOC Content .....<250 grams/Liter (Mixed A&B)

Appearance Dry.....Clear and Medium/High Gloss

Recommended Thickness:
First Coat - Direct to Concrete: 250 - 350 ft2 per gallon
Second Coat - Over Existing Coating: 250 - 350 ft2 per gallon

Specifications / Compliances • Dried coating is USDA accepted • Meets OTC, CARB, LADCO & SCAQMD VOC restrictions

* The indicated coverage is calculated for flat surfaces. A porous or imperfect surface will require more material to cover the same mileage.
* Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.

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:

Moisture Testing:
Concrete substrates, particularly those installed without an adequate vapor barrier, may be susceptible to moisture vapor transmission, potentially resulting in blistering, bubbling, delamination, or premature coating failure.

A preliminary moisture evaluation may be conducted by placing a 4' × 4' polyethylene plastic sheet directly over the concrete surface and securely sealing all edges with tape. After 24 hours, inspect the area beneath the plastic for visible moisture accumulation or condensation.

If no moisture is detected, additional testing may still be required to confirm acceptable substrate conditions before coating application. If moisture is present, further evaluation must be performed using calcium chloride testing (ASTM F1869) and/or in-situ relative humidity testing (ASTM F2170) to determine the moisture conditions of the concrete slab.

IMPORTANT: The plastic sheet test is intended only as a preliminary screening method and does not replace standardized moisture testing. All moisture levels must be verified to fall within the specified limits of the coating system before application.

Old/New Concrete: 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.

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 SOS PRIOR TO USEI TINTING: Tint with Kolour Koat Urapack-S (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. Refer to physical Kolour Koat chart for color selection

No grinding or surface profile is needed when **Premera FP1 Fusion Primer** is used. Any oils and fats must be removed prior to product application. Acid etching may be required (followed by a thorough rinsing) to open the pores of the concrete to accept a primer. Do not apply to wet substrates. Chloride, moisture, and pH levels should be checked prior to application.

Mixing

PPC Aliphatic Urethane Topcoat should be mixed in full kits. 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 2 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

Application

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' x 4' 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 I Use a brush to remove excess coating in joints. An airless or HVLP sprayer may also be used.

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. 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.

LIMITATIONS

- Minimum/Maximum temperature of substrate: 50°F / 80°F (10°C / 27°C)
- Humidity content of substrate must be < 4 % when coating is applied
- Do not apply on porous surfaces where a transfer of humidity may occur during application
- The application of this coating on an interior or exterior substrate without a moisture barrier is at risk of detachment (by hydrostatic pressure).
- Protect from humidity, condensation and contact with water during the 48-hour initial curing period

FOR BEST RESULTS

- 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.
- 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. 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 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 nor its sales agents will be responsible for injury incurred in a slip and fall accident. For interior floors subjected only to foot traffic, Cherry Surf-Wax may be used as an acceptable slip-resistant coating as it meets requirements for ASTM D2047.

- Spray down **Premera T2 MCM** topcoat to provide superior resistance to harsh chemicals, abrasion, mold, mildew, moss, chlorides & salt spray, acid rain, UV damage, oxidation, animal & bird waste damage, gum, and graffiti.

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