

PE-AU100 - ALIPHATIC URETHANE

DESCRIPTION

PE-AU100 is a premium two-part polyurethane topcoat designed for durability and protection in demanding environments. Its high-solids formula resists wear, chemicals, and staining, including hot tire marks and Skydrol exposure. PE-AU100 is designed to be used with aluminum oxide for greater slip resistance and greater durability.

PE-AU100 bonds well to epoxy floor systems and serves as an enhanced protective layer over epoxy in high-traffic areas such as heavy foot traffic, forklift activity, and chemical exposure. This product is designed to be applied over a primed or coated surface and is not designed to be used as a primer.

ADVANTAGES

- Chemical resistant
- Resists hot tire marking
- Hard, impact-resistant finish
- Bonds well to epoxy systems
- VOC compliant

RECOMMENDED USES

- High foot traffic areas
- Forklift traffic zones
- Residential garages
- Light commercial facilities
- Warehouse floors

PACKAGING	1.5 ga Kit Part A Resin (1 ga.) Part B Hardener(1 qt.) Part C Aluminum oxide (1 lb in a quart can)
COVERAGE RATE	750 sq.ft./kit @3.2 WFT
RECOMMENDED THICKNESS	3-4 mils WFT (1 coat) * DO NOT apply thicker than 4 mils WFT
MIX RATIO	(A:B:C) C is recommended but not required
SOLIDS CONTENT	92%
DENSITY (KG/LITRE)	9.64
POT LIFE	60 to 75 mins. @75F, 50% RH *
SHELF LIFE	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.
MIN/MAX SUBSTRATE TEMP AT APPLICATION	50°F (10°C) / 90°F (32°C)
MAXIMUM RELATIVE HUMIDITY DURING APPLICATION AND CURING	≤ 80%
WORKING TIME	15 - 25 mins @ 75°F (24°C) *
CURE TIME	Light Traffic: 24 Hours Full Cure: 7 days
VOC	< 10 g/L

* Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity. *

PROPERTIES @ 73°F (23°C) AND 50% RH.

ABRASION RESISTANCE, ASTM D4060 (CS17/1000 CYCLES/ 1000 G)	18
TENSILE STRENGTH, PSI (MPA), ASTM D2370	6,250 psi
SHORE D HARDNESS (ASTM D2240)	83

SURFACE PREPARATION

- Must be applied to a primed or coated floor. Not designed to be a primer.
- When applying PE-AU100, abrading prior to application is recommended. It is necessary to first degloss/sand the previous coat with an 80 grit screen prior to application.
- If following a different application schedule, please contact your PurEpoxy Sales representative.

MIXING

- Pre-mix A-component using a Jiffy mixer at low RPM for 30 seconds until fully suspended.
- Pre-mix B-component using a clean Jiffy mixer at low RPM for 30 seconds until homogeneous.
- If pigment is required, mix it into Part A before combining with Part B.
- Combine A and B in a clean 5-gal. bucket. Using a Jiffy mixer, mix at low RPM for a minimum of 2 minutes, scraping the sides with a stir stick until fully blended.
- If adding aluminum oxide, add gradually, mixing with the Jiffy mixer for 2–3 minutes at low RPM and scraping the sides until fully combined.
- If no pigment is required, add Part C after blending A and B, and mix thoroughly with the Jiffy mixer.

APPLICATION

- Substrate must be 5°F (3°C) above dew point. Ensure conditions will not change during application and curing.
- Must be applied to a primed or coated surface. Not designed for direct application to concrete.
- If applying over a coated surface, sand the previous coat with 80-grit sandpaper before application.
- Size batches and mix according to manufacturer's instructions. Apply using a "dip & roll" technique, working quickly.
- Apply PE-AU100 immediately using a 9" or 18" wide 1/2" nap paint roller at a rate of 750 sq.ft./kit. (A:B:C @3.2 mils WFT)
- Cross-roll perpendicular to the initial spread for a uniform finish.
- Lightly back-roll parallel to the initial spread direction using a 1/2" nap paint roller to remove roller lines.
- Use a brush in areas inaccessible to a roller.
- Cut-in edges using a 4" chip brush. Do not allow wet edges to stand more than 10 minutes ahead of application of main body of floor.
- Do not overwork material

CLEANING

Clean tools with appropriate solvent before curing. Cured material is very difficult to remove. Clean any spills and splashes before curing.

LIMITATIONS

- Prior to application, measure and confirm the ambient temperature and humidity conditions of air and substrate.
- Measure and confirm temperature of material. Precondition material for 24 hours prior to mixing.
- Protect from moisture and condensation for 24 hours after application.
- For professional use only by experienced personnel.

Prior to use of any product manufactured by APN Specialty Coatings, its subsidiaries or affiliates, the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at <https://purepoxy.com/> or by calling 920-231-0850.

WARRANTY STATEMENT

APN Specialty Coatings Inc. warrants that products delivered to purchasers are manufactured free from material defects and workmanship flaws in accordance with APN Specialty Coatings Inc. published specifications, provided installation follows APN Specialty Coatings Inc. recommended procedures. APN Specialty Coatings Inc. disclaims liability for any damages arising from improper product usage that deviates from its intended purpose or fails to comply with APN Specialty Coatings Inc. installation standards. APN Specialty Coatings Inc. assumes no liability regarding product installation and processing methods. This technical data information serves as general reference material only. Prior to any installation work, please reach out to your regional PurEpoxy Representative or contact our Technical Service team for professional guidance.