

P-AU100 - ALIPHATIC URETHANE

DESCRIPTION

P-AU100 is a premium two-part polyurethane topcoat designed for durability and protection. This high-solids formula provides resistance to wear, chemicals, and staining, making it ideal for floors that take a beating. The clear gloss finish dries to a hard, resilient surface that stands up to impacts, abrasion, and chemical exposure.

This topcoat handles tough conditions including hot tire marks and Skydrol staining. It bonds well to epoxy floor systems. When applying directly over properly prepared concrete or cementitious overlays, you'll need to use a Polyurethane Hybrid Polyurethane-Acrylic Primer first.

P-AU100 works as an enhanced protective layer over epoxy floors in high-traffic areas—think heavy foot traffic, forklift activity, and chemical exposure. For added slip resistance and durability, you can mix in Aluminum Oxide. The product meets VOC compliance requirements throughout the United States and Canada.

ADVANTAGES

- Chemical and stain 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 US ga. (3.79 L)
COVERAGE RATE	500 - 550 sq.ft. /ga.
RECOMMENDED THICKNESS	3.2 - 2.7 mils WFT
MIX RATIO, BY VOLUME	A : B = 3 : 1 + 1lb aluminum oxide
SOLIDS CONTENT	98%
DENSITY (KG/LITRE)	Part A: 1.14 / Part B:0.90 / Mixed: 1.09
POT LIFE	60 minutes @ 77°F (25°C)
RECOAT WINDOW	12 - 24 hours
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.
WORKING TIME	15 - 25 mins @ 75°F (24°C)
CURE TIME	Light Traffic: 24 Hours Heavy Traffic: 48 Hours Full Cure: 7 days
VOC	<50 g/L

* The indicated millage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage. *

* 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)	30
IMPACT RESISTANCE ASTM D2794	160 in./Lbs.
TENSILE STRENGTH, PSI (MPA), ASTM D2370	4,500 psi
ELONGATION, ASTM D2370	5%
GLOSS INDEX ASTM D523	85

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SURFACE PREPARATION

- Concrete substrates should be cured for a minimum of 30 days and have a min. compressive strength of 3,000 psi.
- Achieving optimal adhesion requires a clean, mechanically prepared substrate. Surfaces must be clean, sound and properly prepared.
- Substrate must have minimum Concrete Surface Profile (CSP) of 3-4.
- Do not apply to wet or damp substrates.
- Test for concrete moisture before application (see Concrete Moisture.)
- Remove all surface dust just prior to application. Protect prepared surface against contamination.

MIXING

Pre-mix A-component in its respective container using Jiffy mixer and drill at low RPMs for 30 seconds to ensure components are fully suspended.

Pre-mix B-component in its respective container using clean Jiffy mixer and drill at slow speeds for 30 seconds or until thoroughly homogeneous.

Transfer A-component and B-component at a mix rate of 3A:1B by volume into a clean 5-ga. bucket (if adding aluminum oxide add #220 at a rate of 1/2 lb./ga. or #320 at a rate of up to 3 lbs./ ga.) and mix for 2-3 minutes at low RPMs being sure to scrape sides of the bucket with a stir stick ensuring both components are thoroughly blended

APPLICATION

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.

Use paint tray to dip and roll material across the surface using 18"x1/4" mohair roller.

- Maintain wet edge
- Always pour next mixed batch onto wet edge
- Do not apply heavier than recommended coverage rates

Back roll the surface with 18" x 1/4" nap roller by walking into the wet material wearing spike shoes and roll the surface wall to wall with overlap perpendicular to your first pass.

- 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.
- Stated MVT resistance is assuming otherwise sound concrete condition.
- Measure and confirm temperature of material. Precondition material for 24 hours prior to mixing.
- Minimum/Maximum substrate temperature at application: 45°F (7.2°C) / 85°F (30°C).
- Maximum relative humidity during application and curing : 80%.
- Substrate must be 5°F (3°C) above dew point. Ensure conditions will not change during application and curing.
- Observe concrete moisture limitations stated in Concrete Moisture section.
- On porous, non-concrete substrates, ensure that there will be no moisture penetration on positive side.
- Protect from moisture and condensation for 24 hours after application.
- Do not apply to substrates exhibiting or tested positive for alkali silica reaction (ASR) or have shown indications of near surface alkali reaction (NSAR.)
- Do not use propane or kerosene fueled heaters. Permanent discoloration of coating may occur.
- For professional use only by experienced personnel.
- **KEEP CONTAINER TIGHTLY CLOSED**
- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**

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.

HEATH & SAFETY

Read and fully understand all of these instructions before beginning mixing and application. Read and understand product SDS and other safety warnings.

Obtain and wear all required personal protection equipment (PPE.)

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse.

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.