PurEpoxy PP-S100 - HYBRID 100% SOLIDS POLYASPARTIC

DESCRIPTION

PurEpoxy PP-S100 is a two-component, high solids, polyaspartic coating system. It provides outstanding appearance, superior chemical, UV, solvent resistance, and excellent physical properties. PP-S100 has tenacious bond strength direct to concrete allowing it to be used throughout a coating system. Its water-clear appearance and non-yellowing characteristics make it ideal for decorative vinyl flake, color quartz and metallic floor systems.

ADVANTAGES

- No odor
- Long working time (up to one hour.)
- UV, chemical, and stain resistant
- Flexible
- Fast drying in thin film
- Contains no VOC solvents, allowing for interior applications
- Strong weathering and abrasion resistance

RECOMMENDED USES

- UV stable finish coat for many substrates
- Interior commercial & residential surfaces
- Aircraft hangars
- Maintenance facilities
- Industrial shop floors
- Car washes & wash bays

PACKAGING	2.5 US gal (9.46 L) or 10 US gal (37.8 L)	
RECOMMENDED THICKNESS[1]	Primer:	Finish Coat:
	8-10 mils WFT (200-160 sq.ft./ga.)	Over solid color: 6 mils WFT (266 sq.ft./ga.) Over vinyl chips: 10 mils WFT (160 sq.ft./ga.)
SHELF LIFE	12 months in original unopened factory sealed container. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.	
POT LIFE, 16 oz (500g) MASS	~15 minutes @ 77ºF (25ºC)	
WORKING TIME	~40 minutes @ 75ºF (25º C)*	
VOC	1.24 g/L	

* May vary depending on humidity and air movement.
** Pre-tinted available upon request.

CLEANING

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

PROPERTIES
@ 73°F (23°C) AND 50% RH.

SOLIDS CONTENT, BY VOLUME (CLEAR)	100%				
CURE TIME[2]	Tack-Free:	Recoat:	Foot Traffic:	Heavy Traffic:	Full Cure:
	~1 - 2 hours	~2 hours	~2 - 4 hours	~24 hours	~4 - 7 days
TABER ABRASION D4060 (MG LOSS, 1000G, 1000 CYCLES)	83				
ADHESION TO CONCRETE ASTM D4541	>350 psi (Concrete fails)				
WATER ABSORPTION, ASTM D570	0.2%				
HARDNESS, SHORE D, ASTM D2240	76				
FLEXIBILITY, 1/8" MANDREL, ASTM D1737	Pass				
GLOSS, ASTM D523	88				

[1]Coverage rates are stated for smooth concrete. Rough or heavily prepared surfaces may require additional material.

[2]Stated curing times are approximate and depend on ambient conditions, temperature, and humidity. Higher temperatures and/or humidity will decrease working times.

Thinning: Not recommended, do not thin.

SURFACE PREPARATION

Concrete substrates should be cured for a minimum of 30 days and have a minimum compressive strength of 3,000 psi Surfaces must be clean, sound and properly prepared. Suitable preparation methods are recirculating abrasive shot-blasting, and/or diamond abrasive grinding. Remove all surface contamination before preparation. All soil, grease, oil or wax, or curing-agents must be removed.

Any preparation method should produce a uniform surface profile of CSP-2 (ICRI Guide 03732,) or greater. Acid etching of concrete is unacceptable and will void Manufacturer's warranty.

Existing, well-adhered compatible coatings may be prepared by sanding or grinding to produce a uniformly open, gloss-free surface.

Do not apply to wet substrates. Test for concrete moisture before application (see Concrete Moisture.)

CONCRETE MOISTURE

- Note although moisture testing is critical it is not a guarantee against future moisture related problems. This is especially true if there is no vapor barrier or the vapor barrier is not functioning properly and or you suspect there is concrete contamination from oils, chemical spills or excessive salts.
- A functioning vapor barrier is required.
- Perform a water droplet test in multiple places to make sure the slab is porous. (Per ASTM 3191).
- Open the pore structure in any nonporous areas and retest before installing.

MIXING

- Precondition all components for 24 hours to ambient temperatures.
- In clean mixing pail, mix entire unit, A & B. Units are premeasured for correct ratio, do not break down units, product performance will be effected.
- Mechanically mix only, do not mix by hand. Do not mix more material than can be distributed and applied in the working time window. Using a Jiffy/Jiffler, or similar type mixing attachment, slowly mix the components being careful not to introduce excessive air.
- Mix for 3 minutes. Ensure all material is scraped by side wall and bottom of mixing container. Apply material to floor immediately after mixing. Delay in distributing product will result in exothermic heat buildup in container.

APPLICATION

The recommended application method is the use of non-marking rubber squeegee and roller application. Notched squeegees of the appropriate notch depth may be used for thicker applications.

18-inch rollers are recommended on larger area floors to reduce lap marks. Roller should have solvent-resistant phenolic core, high quality non-shedding fiber covers. Use 1/4-inch to 3/8-inch nap, depending on final finish and thickness desired. Quality brushes or wall-edgers may be used for cutting in margins.

Distribute material evenly with non-marking (gray EPDM type, or similar) rubber flat squeegee. Apply even film at desired thickness. Roll material in two directions to achieve uniform film. Finish roll in one direction, typically at right angles to primary sight-line when entering room.

- Avoid puddles of material
- Do not apply above recommended thickness

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.
- Do not allow material to freeze. Frozen material cannot be recovered and must be disposed of.
- Minimum/Maximum substrate temperature at application: 45ºF (7.2ºC) / 85ºF (30ºC).
- Maximum relative humidity during application and curing: 80%.
- Substrate must be 5ºF (3ºC) 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).
- 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

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.

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