PP-HFAST - HYBRID HI-PERFORMANCE POLYASPARTIC (FAST)

DESCRIPTION

PP-HFAST is a two-component, fast cure, low-odor, hybrid polyaspartic coating system designed as a decorative yet durable coating for commercial and residential flooring. Formulated with aliphatic chemistry, PP-HFAST is color stable, without the color shifting seen with other coating systems such as epoxies. PP-HFAST is a 1:1 mix ratio system with extended pot life for roller, brush, or spray application. The extended working time allows for easy installation across low temperatures and high humidity conditions.

ADVANTAGES

- Lower odor than most polyaspartic products
- Cures at temperatures just above freezing
- UV resistant, non-yellowing
- High-gloss finish
- Color stable
- Abrasion and impact resistance
- Micro-media traction agents can be mixed into the base coat or broadcast into the wet topcoat
- Chemical resistance, resistant to Skydrol
- Resistant to hot tire transfer

RECOMMENDED USES

- UV-stable top coat
- Aircraft hangar floors
- Maintenance facilities
- Shop floors
- Car washes or wash bays
- Commercial buildings
- Restaurants
- Warehouses

PACKAGING	2 US ga. Kit 10 US ga. Kit	
COLOR	Clear	
RECOMMENDED THICKNESS1	PRIMER	FINISH COAT
SOLID COLOR	8 mils WFT (200 sq.ft. /ga.)	Over solid color: 6 mils WFT (266 sq.ft./ga.) Over vinyl chips: 12 mils WFT (140 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.	
MIX RATIO, BY VOLUME	A:B = 1A : 1B	
POT LIFE, 16 oz (500g) MASS	~15 minutes @ 77ºF (25ºC)	
WORKING TIME	~10-20 minutes @ 75ºF (25º C)	
VOC	< 160 g/L	

PROPERTIES

@ 73°F (23°C) AND 50% RH.

CURE TIMES			
TACK-FREE	30 - 45 minutes		
RECOAT TIME	1 hour		
FOOT TRAFFIC	1 - 2 hours		
HEAVY WHEELED TRAFFIC	24 hours		
FULL CURE	4 - 7 days		
TABER ABRASION D4060 (MG LOSS, 1000G, 1000 CYCLES)	80		
ADHESION, ASTM D4541	>350 psi (Concrete fails)		
WATER VAPOR ABSORPTION, ASTM D570	0.2%		
HARDNESS, ASTM 2240 (SHORE D)	75 - 78		
FLEXIBILITY, 1/8-in MANDREL, ASTM D1737	Pass		
	PART A	**PART B**	**MIXED**
VISCOSITY	350 - 450 cP	75 - 100 cP	125 - 225 cP
GLOSS, ASTM D523	95+ GU		
TENSILE STRENGTH, ASTM D638	6,500-7,500 (44.8 - 51.7 MPa)		
COMPRESSIVE STRENGTH, ASTM 695 NEAT	9,500 psi (65.50 MPa)		
QUARTZ FILLED	13,700 psi (89.63 MPa)		
VINYL MOSAIC FLAKE FILLED	12,200 psi (82.73 MPa)		
VOC	121.8 g/L		

*Recommended application thicknesses are stated for smooth surfaces. Rough surfaces may require more material or multiple coats. Maximum single application thickness, 12 mils.
**Drying and cure times will be affected by changing ambient conditions, rising or falling temperatures, changes in humidity, and air movement.
***Xylene recommended for thinning, not to exceed 5% x Vol

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.

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

CLEAN UP

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.
- 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 Performance 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 Performance Coatings Inc. warrants that products delivered to purchasers are manufactured free from material defects and workmanship flaws in accordance with APN Performance Coatings Inc. published specifications, provided installation follows APN Performance Coatings Inc. recommended procedures. APN Performance Coatings Inc. disclaims liability for any damages arising from improper product usage that deviates from its intended purpose or fails to comply with APN Performance Coatings Inc. installation standards. APN Performance 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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