

PPA (Performance Polyaspartic)

DESCRIPTION

PPA (Performance Polyaspartic) is a high solids, low-VOC, two-component coating designed for rapid-curing floor applications. PPA delivers a durable, high-build finish with outstanding UV resistance.

Ideal for decorative systems, **PPA** can be used as a broadcast coat for flakes or quartz, or as a topcoat within many IntegraCoat Solutions systems. In addition, **PPA** provides resistance to a wide range of common chemicals.

KEY ADVANTAGES

- Fast return to service
- Self-leveling application
- Excellent UV protection
- Good chemical resistance and durability
- High Solids, low VOC

TYPICAL USES

- Bathrooms and restrooms
- Locker rooms and changing areas
- Food service and processing areas
- Hallways and corridors
- Showrooms and retail spaces
- Lobbies and entryways
- Mechanical and equipment rooms
- Residential and commercial garages
- Patios and covered outdoor areas

TECHNICAL DATA

LIQUID PHASE PHYSICAL PROPERTIES	
Mix Ratio (By Volume):	1 Part Resin (Part A): 1 Part Hardener (Part B)
Mix Solids (By Volume):	96.40%
Mixed VOC:	<10 g/L
Theoretical Flashpoint:	Resin: 494°F (257 °C) Hardener: 266°F (130°C)
Mixed Density:	9.43 lb/gal
Mixed Viscosity: (10 rpm)	~300 cps
<i>*All tests conducted at 77°F and 50% RH</i>	

SOLID PHASE PHYSICAL PROPERTIES	
Color:	Clear
Finish:	70-89 (Gloss)
Hardness:	Shore D (24 hrs): 50 Shore D (7 days): 65-70
Bond Strength (Concrete):	>400 psi; Concrete failure observed
Bond Strength (Ferrous Metal, 2 mil Blasted Profile):	>500 psi
Abrasion Resistance (Taber, CS-17, 1,000g, 1,000 cycles):	75-85mg loss
Elongation:	>56%
Impact Resistance (Direct):	>88 in-lb
<i>*Unless otherwise stated, all tests conducted at 77°F and 50% RH after 7 days of curing</i>	

COLORANT / PIGMENTATION

PPA is currently available only as a clear polyaspartic coating . If your project requires a pigmented system, please contact your IntegraCoat Solutions representative for alternative solutions.

CURE CHARACTERISTICS

Work Time:	20 Minutes
Pot Life:	20 Minutes

Ambient Cure Schedule:	Light Foot Traffic:	Full Foot Traffic:	Full Cure:
	4 Hours	12 Hours	7 Days

Recoat:	Minimum Recoat Time:	Maximum Recoat Time:
	4 Hours	24 Hours

**All tests conducted at 77°F and 50% RH*

GENERAL APPLICATION PARAMETERS

APPLICATION THICKNESS AND COVERAGE RATE			
Specification	Wet Film Thickness (WFT)	Dry Film Thickness (DFT)	Coverage Rate
Minimum Application	12.00 mils	11.56 mils	~133ft ² /Gal
Maximum Application	16.00 mils	15.42 mils	~100ft ² /Gal

Coverage rates are theoretical and do not account for material loss, substrate porosity, or surface irregularities.

Application Coats

One or more coats may be applied. The exact number will depend on the desired coating thickness and the specific IntegraCoat system being installed. For additional guidance, contact your IntegraCoat Solutions representative.

CONDITIONS DURING APPLICATION

APPLICATION ENVIRONMENTAL CONDITIONS	
Material Temperature Range:	50-95°F
Ambient Temperature Range:	50-95°F
Substrate/Surface Temperature Range:	50-95°F*
<i>*Substrate/Surface temperature should be at least 5°F above the dew point.</i>	
Relative Humidity Range:	30-80%**
<i>**Higher humidity will significantly reduce working time, pot life, and cure time.</i>	
<i>Ensure these environmental conditions are maintained throughout the entire application and curing process.</i>	

SURFACE PREPARATION OF THE SUBSTRATE

PPA should be applied to properly prepared and primed concrete.

Coating performance is directly related to the quality and thoroughness of surface preparation. All surfaces must be fully cured, clean, dry, and free of dust, oil, grease, laitance, curing compounds, or any other contaminants that may impair adhesion.

PPA is not recommended for direct application to bare concrete. A suitable IntegraCoat Solutions primer should be used in conjunction with appropriate substrate preparation. Refer to the specific primer's Product Data Sheet for detailed preparation instructions.

Prior to application, check the substrate for moisture content and moisture vapor transmission (MVT) to ensure conditions are suitable for coating.

When recoating or applying over an existing coating, the surface must be properly cleaned and mechanically prepared to ensure sufficient adhesion. After mechanical preparation, solvent-wipe the surface with a clean, lint-free cloth to remove residual dust and contaminants before applying the next coat.

A test patch is recommended to confirm compatibility and adhesion.

If a smooth finish is desired, fill voids, spalls, and bug holes prior to application.

If your substrate or project conditions differ from those described, please contact your IntegraCoat Solutions representative for guidance.

MIXING

Mix Ratio: 1:1 by volume - Resin (Part A) : Hardener (Part B)

Premix Part A and Part B immediately before use. Measure the required amount of Part A into a clean, suitable container that can accommodate the full mixture. Then, pour in an equal volume of Part B, taking care to avoid splashing material onto the sides of the container.

Begin mixing slowly with a low-speed drill and a steel or polyethylene spiral mixing paddle. Gradually increase the speed and mix for 2 minutes until the material is thoroughly blended. Avoid whipping air into the mixture.

After initial mixing, transfer the material into a clean second container (the transfer pail) and mix again briefly. The material in the transfer pail is now ready for application over a properly prepared and primed substrate.

Mixing Tips & Warnings

- Only mix what can be applied within the stated working time.
- To minimize moisture exposure, keep material in the transfer pail and pour only what will be applied immediately.
- Do not add freshly mixed material to previously mixed material.
- Do not reseal a container of mixed material. Pressure buildup may occur, creating an explosion hazard.
- Improper mixing may result in product failure.

APPLICATION

Using the mixed material in transfer container, pour only the amount of material that will be applied immediately, keeping the remainder in the transfer pail to minimize moisture exposure. Apply evenly with a notched squeegee, then back-roll immediately and consistently to ensure a uniform finish. Do not overwork the material during application, as this can create surface defects.

Complete the application of each full mix before starting the application of the next mix to avoid cold joints or lap marks. When applying multiple mixes, always maintain a wet edge between sections to prevent visible streaks or lines. Avoid overlapping fresh material onto partially cured areas.

For decorative systems, broadcast of flakes, quartz, or other aggregates should be completed within the product's working time.

Application Tips

- Applying too thin may result in poor leveling and an uneven film.
- Applying too thick may cause blisters, gas pockets, or a soft, under-cured surface.
- Avoid puddling or pooling.
- Back-roll in a single direction to ensure even texture and minimize roller marks.
- Do not overwork the material during application, as this can create surface defects.
- Limit brush application to cut-ins, small areas, touch-ups, and repairs.
- Use natural breaks (e.g., joints, walls, transitions) to divide floor sections and maintain clean start/ stop points.
- Higher humidity will reduce working time. Plan application steps accordingly.
- If working time is exceeded, discard the material. Do not try to rework, thin, or add to a new mix.
- Maintain continuous ventilation during application and curing to aid solvent release and reduce odors.
- Replace roller covers frequently (recommended with each new mix) to avoid shedding, uneven texture, or shortened working time from saturated or worn rollers.
- Use spiked shoes to move across the wet floor without disrupting the coating.
- **DO NOT spray this material!**

TECHNICAL APPLICATION DATA	
Induction Period:	None
Thinner:	Not Recommended
Cleanup:	Clean all equipment immediately after use with acetone, xylene, or MEK

PACKAGING

2 Gallon Kit	
Resin (Part A):	1 gallon in a 1-gallon metal can
Hardener (Part B):	1 gallon in a 1-gallon metal can

SYSTEMS

- Clear
- Quartz Single Broadcast System
- Quartz Double Broadcast System
- Flake Single Broadcast System
- Flake Double Broadcast System

For more information, or if these systems do not meet the needs of your project, please contact your IntegraCoat Solutions representative.

LIMITATIONS

- Do not apply directly to concrete.
- Do not apply over a wet or damp surface.
- Do not expose to water until fully cured.
- Touch-up or repair of an existing coating may not result in a visually perfect finish.
- Not suitable for spray application.
DO NOT SPRAY!
- Dragging heavy objects across the floor may cause damage.
- Dropping pointed or sharp objects may damage the surface.

STORAGE INFORMATION

Store this product in accordance with applicable local, state, and federal regulations. Keep containers in a cool, dry, well-ventilated area away from heat, sparks, open flames, and other sources of ignition.

- Recommended Storage Temperature: 50°F to 95°F (10°C to 35°C)
- Shelf Life: 12 months from manufacture date (unopened, under recommended storage conditions)
- Container Handling: Keep containers tightly closed when not in use. Do not allow moisture contamination.

Failure to maintain these conditions, or exceeding the shelf life, may result in:

- Increased viscosity
- Significant changes of work time and cure schedule
- Undesirable surface defects
- Discoloration in the container and/or on the applied floor

SHIPPING INFORMATION

DOT / IATA / IMDG Shipping Information:

Resin (Part A):	Non-Regulated Resin Compound
Hardener (Part B):	UN2234, Chlorobenzotrifluorides, 3, PGIII

MAINTENANCE

Allow the coating to fully cure before cleaning. Sweep regularly and mop as needed using a mild, pH-neutral cleaner. Avoid harsh chemicals, abrasive pads, or solvents that may dull or damage the surface. Test each cleaner in a small, inconspicuous area before applying it to the entire floor. Inspect the floor periodically and perform spot repairs as necessary.

For detailed maintenance guidance, contact your IntegraCoat Solutions representative.

SAFETY

Before beginning any work, thoroughly review all applicable Safety Data Sheets (SDS), Product Data Sheets, and equipment manuals. Follow all instructions and safety precautions during storage, handling, surface preparation, and product application.

Improper use can present serious hazards to health and safety, including the risk of fire, explosion, chemical exposure, or respiratory illness. Always wear the appropriate personal protective equipment (PPE) when operating machinery or handling coatings or concrete.

Be especially cautious of concrete dust, which may contain crystalline silica and other hazardous materials that can cause silicosis or other serious illnesses if inhaled.

It is the responsibility of the installation company, general contractor, engineering firm, EPC contractor, and/or facility owner to ensure compliance with all applicable jobsite, local, state, and federal safety regulations.

For further guidance, refer to industry standard AMPP Paint Application Guide No. 10: Guide to Safety and Health Requirements for Industrial Painting Projects.

WARRANTY

IntegraCoat Solutions warrants its products to be free from defects in material and workmanship. IntegraCoat Solutions' sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at IntegraCoat Solutions option, to either replacement of products not conforming to this Warranty or credit to the Buyer's account in the invoiced amount of the nonconforming products.

LITERATURE REVISION:

PDS: PPA Performance Polyaspartic - Rev. 250905

Published literature is subject to change without notice. IntegraCoat Solutions is constantly engaged in the testing of existing formulations, the development of new innovative technologies, and the evaluation of the latest practices. The latest literature should always be consulted at www.integracoat.com

WARRANTY (CONTINUED)

Any claim under this warranty must be made by the Buyer to IntegraCoat Solutions in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the ship date, whichever is earlier. Buyer's failure to notify IntegraCoat Solutions of such nonconformance as required herein shall bar Buyer from recovery under this warranty.

IntegraCoat Solutions makes no other warranties about the product. No other warranties, whether expressed, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply.

Any recommendation or suggestion relating to the use of the products made by IntegraCoat Solutions, whether in its technical literature, or in response to specific inquiry or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for the Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedure of use, or extrapolation of data may cause unsatisfactory results.

LIMITATION OF LIABILITY

IntegraCoat Solutions' liability on any claims based upon IntegraCoat Solutions' negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or parts thereof which give rise to the claim. In no event shall IntegraCoat Solutions be liable for consequential or incidental damages.