

### PFS ASP-520: High-Performance Polyaspartic Quartz Coating

PFS ASP-520 is a state-of-the-art, seamless, and integrated composite decorative flooring system. Comprising colored quartz aggregates and a premium polyaspartic resin binder, this self-leveling system creates a rich variety of decorative patterns with an elegant texture. Designed for high-demand environments, it forms a tough, wear-resistant surface capable of withstanding extreme mechanical wear, heavy impact, and aggressive chemical exposure while maintaining complete UV stability.

#### Key Advantages

- **Super Weather Resistance:** Exceptional UV stability ensures the coating remains non-discoloring and non-yellowing even under prolonged outdoor sun exposure.
- **Extreme Durability:** Outstanding wear resistance and high compressive strength designed for hard-wearing floor surfaces.
- **Aesthetic Customization:** Colors and patterns can be freely customized with a natural stone texture, offering vibrant hues and premium decorative effects.
- **Chemical & Biological Resilience:** Provides excellent resistance against acids, alkalis, industrial chemicals, and effectively inhibits mold and bacteria growth.
- **Seamless & Waterproof:** Eliminates joints and seams to create a monolithic, impermeable, and easy-to-clean flooring layer.
- **Environmental Safety:** Non-toxic, eco-friendly formulation with extremely low VOC emissions.

#### Typical Applications

- **Commercial & Public Spaces:** Ideal for airports, large shopping malls, exhibition halls, subways, and high-end entertainment venues.

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- **Industrial Flooring:** Perfect for electronics facilities, telecommunication centers, and pharmaceutical plants requiring dust-free environments.
- **Healthcare & Residential:** Suitable for hospitals, cleanrooms, and premium residential buildings seeking enhanced aesthetics and hygiene.

### Application Guidelines

- **Mixing Ratio:** Please thoroughly mix the self-leveling color quartz coating by the designated right ratio before application (Refer to packaging labels for precise batch weights).
- **Environmental Conditions:**
  - **Substrate Requirements:** The concrete substrate must be completely solid, dense, clean, dry, and free of laitance, oil, or other contaminants. New concrete must be cured for at least 28 days.
  - **Application Process:**
    1. **Substrate Repair:** Fill any cracks, holes, or defects with repair mortar. Sand and vacuum the surface thoroughly.
    2. **Priming:** Apply a suitable primer to seal the concrete pores and enhance adhesion.
    3. **Intermediate Coat (Optional):** For substrates with poor flatness or high mechanical loading, apply an additional leveling layer (mortar and putty layer). If the substrate is in good condition, this step can be omitted.
    4. **Topcoat Application:** Pour the thoroughly mixed ASP-520 material at the designated starting point and spread it evenly using a trowel, beginning from the corners. Maintain consistent pressure and a specific angle to achieve a uniform thickness and seamless transition.

5. **Defoaming:** Since it is a thick-film system, a spiked roller must be used immediately after topcoat application to eliminate trapped air bubbles and aid in the self-leveling process.

### Storage & Packaging

- **Packaging:** Part A: 3/6/15 KG Part B: 1/5 KG; **Mix Ratio (by weight):** A:B = 3:1
- **Shelf Life:** 12 months when stored unopened in a cool, dry, and well-ventilated place.
- **Storage Conditions:** Keep containers tightly sealed. Store away from direct sunlight, moisture, open flames, and high temperatures.

### Safety & Personal Protective Equipment (PPE)

- **Skin Protection:** Always wear impervious gloves and protective clothing when handling the product. Wash thoroughly with soap and water upon contact.
- **Eye Protection:** Protective eyewear/goggles are mandatory to prevent accidental splashes during mixing and troweling.
- **Ventilation:** Ensure adequate and continuous ventilation in the workspace during mixing, application, and curing.



### Technical & Physical Data

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<b>Property</b>	<b>Test Method</b>	<b>Result</b>
<b>Appearance</b>	<b>Visual</b>	<b>Colored quartz texture / Customizable colors</b>
<b>Finish</b>	—	<b>Glossy / Seamless texture</b>
<b>UV Stability</b>	—	<b>Excellent (Non-yellowing)</b>
<b>VOC Emissions</b>	—	<b>Low VOC, Eco-friendly</b>
<b>Wear Resistance</b>	—	<b>Outstanding</b>
<b>Waterproofing</b>	—	<b>Impermeable / Seamless barrier</b>
<b>Slip Resistance</b>	—	<b>Excellent</b>