

SpecQuick Polyaspartic **Clear Coat**

High solids, high gloss polyurea/polyurethane clear coat

A two component, low VOC, rapid curing, solvent based, high solids, high gloss clear polyaspartic aliphatic polyurea floor coating for interior & exterior floors.

Intended Uses:

SpecQuick Polyaspartic Clear Coat has been formulated as a rapid curing, clear topcoat for added performance to existing epoxy/polyaspartic floors or as a stand-alone clear system on properly prepared concrete or metal floors in high traffic decorative & protective applications.

When cured SpecQuick Polyaspartic Clear Coat has excellent clarity, UV stability with an exceptionally high gloss smooth finish that is abrasion, impact, chemical & wear resistant. When mixed with non-slip aggregate, floors will have a significant increase in abrasion & slip resistance, ideal for heavy duty environments where maximum abrasion resistance is required.

SpecQuick Polyaspartic Clear Coat is suitable for application in a wide variety of environments including decorative concrete, walkways, commercial floors, industrial floors, concrete countertops, garage floors, cold storage areas, warehouses, food processing facility areas, showroom floors, aircraft hangars, patios, pulp & paper mills, battery rooms or in any areas that require above average chemical & abrasion resistance.

Properties:

- High tensile strength.
- UV stable & non-yellowing.
- Excellent penetration & adhesion to properly prepared substrates.
- Excellent impact, abrasion & wear resistance.
- Rapid curing - 1 day installation with next day return to service.
- Short re-coat times: 1.5 to 2 hours.
- Low VOC.
- Resistant to hot tyre pickup.
- Excellent chemical, graffiti & stain resistance.
- Provides a "wet look" and enhances underlying aggregates or colour.
- Proven performance technology.

Technical Data:

Colour	Clear
Finish	High gloss
Volume Solids	98%
Mix Ratio (Volume)	1 part(s) base : 1 part(s) activator by volume
Activator	PU Activator 95 ULTRA
Typical Film Thickness	50 – 150µm DFT per coat (Maximum 400µm)
Theoretical Coverage	• 19.6 m²/ Litre @ 50µm DFT • 9.8 m²/ Litre @ 100µm DFT • 6.5 m²/ Litre @ 150µm DFT • 4.9 m²/ Litre @ 200µm DFT • 3.2 m²/ Litre @ 300µm DFT • 2.4 m²/ Litre @ 400µm DFT
Method of Application	Brush, roller, squeegee, or airless spray
Number of Coats	1 – 2. Refer to "Systems & Compatibility"
Flash Point	N/A

Floor Coatings: Polyaspartic Floor Coatings

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Induction Period	Not required
V.O.C	Consult with Specialized Coating Systems
Pot Life	60 minutes @ 25°C
Shore D Hardness after 3 days @ 50°C	78
Pendulum Hardness, Koenig, after 7 days @ room temperature	144 sec
Abrasion, Taber CS 17, 1000 cycles, 10N	17.6mg
Temperature Resistance	140°C resistance for random incidental heat contact

Drying Information:

	0°C	5°C	10°C	25°C	30°C	40°C
Touch Dry	-	-	-	1 hr 15 min	-	-
Light Traffic	-	-	-	2.5 – 3 hrs	-	-
Heavy Traffic	-	-	-	24 hrs	-	-
Overcoating Data – See Limitations						
Substrate Temp.	0°C	5°C	10°C	25°C	30°C	40°C
Minimum	-	-	-	1.5 – 2 hrs	-	-
Maximum	-	-	-	4 – 6 hrs	-	-
Full Cure	-	-	-	24 hrs	-	-

* SpecQuick Polyaspartic Clear Coat can be overcoated after it has become tack free. If the over coating window has been exceeded the substrate must be thoroughly sanded/grinded prior to re-coating.

Systems & Compatibility:

Consult a Specialized Coating Systems technical representative for specific coating system solutions.

SpecQuick Polyaspartic Clear Coat can be applied onto properly prepared epoxy, concrete & polyaspartic floors.

Porous or friable concrete floors should be prepared and primed with Epoxy WB Concrete Primer. When applying over epoxy primers it is important that the epoxy is over-coated according to the recommendation recoating times.

Surface Preparation:

All surfaces to be coated must be dry, clean, and free from contamination or previous coatings and sealers which may impede adhesion. Always check the surface for any bond inhibitors prior to application. Do not use Alcohol to clean or tack substrate or previous coat prior to application. Any repairs must be addressed prior to application and should be repaired in accordance with manufacturer's instructions.

Concrete:

Concrete surfaces need to be mechanical prepared by milling, grinding or shot blasting. It is important to ensure that any laitance, loose or weak surface layers are removed and repaired before beginning application. The areas to be coated should be dry, solid & free from dust, oil, grease & other contaminants.

- Oil can be removed using Hydrosolve Degreaser.
- Fungal growth or algae can be removed using Fungicidal Wash.
- The moisture content of the concrete should not exceed 4%.

Generally, SpecQuick Polyaspartic Clear Coat is self-priming, however if the concrete is porous or friable it will create air bubbles in the final film. Therefore, application of Epoxy WB Concrete Primer is recommended prior to application.

Existing Epoxy or Polyaspartic Coatings:

SpecQuick Polyaspartic Clear Coat can be applied over existing epoxy/polyaspartic coatings, or new epoxy/polyaspartic coatings. Ensure re-coating instructions of the epoxy/polyaspartic are strictly adhered to for proper adhesion of SpecQuick Polyaspartic Clear Coat as a topcoat.

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Typically, any epoxy/polyaspartic coating that has been applied and dried for 24 hours should be sanded using 80 grit sanding paper. 100% of the surface must be scuffed and profiled. A mechanical bond is required for SpecQuick Polyaspartic to have best adhesion.

SpecQuick Polyaspartic Clear Coat should not be applied over polyurethane or acrylic coatings.

Steel - Abrasive Blast Cleaning and Mechanical Preparation

All surfaces to be coated must be dry, clean, and free from contamination. This product must only be applied to surfaces prepared by abrasive blast cleaning to SA 2½ in accordance with International Standard ISO 8501:2007 and SSPC-SP10. A sharp angular profile of 50 – 70 microns is recommended.

SpecQuick Polyaspartic Clear Coat must be applied before oxidation occurs. If oxidation does occur the entire oxidised area should be re-blasted to the standard specified above.

Surface defects revealed by the blast cleaning process should be ground, filled and treated in the appropriate manner.

Application:

Mixing	Material is supplied in two containers as a kit. Always mix a complete kit in the quantities supplied. Once mixed the product should be used within the pot life specified. Stir the base component well with a flat-bottomed paddle or mechanical mixer until product is uniform. Continue stirring and add the entire contents of the activator container. Continue stirring until the mixture is homogeneous. Care must be taken not to entrain air bubbles during the mixing process. Ensure that sufficient material be mixed so that the product can be applied within its use-able life. The temperature of the mixed product should preferably be above 10°C. Higher temperatures result in reduced sag resistance and faster cure. If non-slip additive is to be incorporate, it should be done after mixing part A and B. Do not mix below the dew point, which will shorten the pot life.	
Mix Ratio	1 part(s) base : 1 part(s) activator by volume	
Pot Life	60 minutes @ 25°C	
Brush	Recommended	High quality brushes only
Roller	Recommended	Sponge or synthetic short nap roller
Airless Spray	Recommended	Tip Range 17 – 31 Thou. Pressure at the tip should not be less than 150 bar (2176 PSI)
Thinner	Solvent XL or MEK	Temperature can be used to control viscosity alternatively 0 – 15% can be added to reduce viscosity.
Cleaner	Solvent XL or MEK	For dry paint & equipment
Work Stoppage	Do not allow material to remain in spray equipment after use, thoroughly flush and clean all equipment with Solvent XL or MEK , do not use alcohols. Once the kit has been mixed, they should not be re-sealed and it is advised that of prolonged stoppages, work recommences with freshly mixed units.	
Application	SpecQuick Polyaspartic Clear Coat should be applied in a multi directional (north-south, east-west) motion to ensure proper coating thickness.	
Clean Up	Clean all equipment immediately after use with Solvent XL or MEK , do not use Alcohols. It is advisable to periodically flush out spraying equipment during the course of the working day. Frequency of cleaning is dependant of upon the amount sprayed, temperature and elapsed time. Work strictly in accordance with the specified pot life of the material.	

Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	5°C*	10°C	No lower limit
Maximum	40°C*	45°C	85%

* High temperatures result in reduced sag resistance and faster cure.

Limitations:

- SpecQuick Polyaspartic Clear Coat should not be applied over polyurethane or acrylic coatings.
- SpecQuick Polyaspartic Clear Coat requires a dry substrate and should not be applied to substrates with high levels of moisture vapour transmission.
- A thicker film build will have a longer curing time than thinner film builds and may result in air entrapment.
- The product must be used within the short pot life specified.
- Overcoating times must be strictly adhered to, failing to do so will result in intercoat delamination.
- This product will dry extremely fast in humid conditions.
- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a Specialized Coating Systems representative for specific recommendations.
- Unmixed material (in closed containers) should be maintained in protected storage in accordance with information given in the STORAGE section of this data sheet.
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating.

Pack Size:

1 & 5 Litre.

Storage:

- Shelf Life: 18 months minimum at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight, away from sources of heat or ignition.
- Maintaining a consistent storage temperature prior to application will maximize working time.

Precautions:

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using this product.

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