

POLAGARD SILVER FP™

High Performance Fluoropolymer Coating



DESCRIPTION

POLAGARD SILVER FP is a clear fluoropolymer resin that is combined with micro-encapsulated nanoparticulate silver and hardened with polyurethane to produce a tough, flexible surface coating. This composite coating is especially effective to maintain clean surfaces that resist microbiological activity.

OUTSTANDING FEATURES

- Cured film is flexible, tough, and abrasion-resistant
- Has fast setting properties and rapid strength build
- Antimicrobial properties maintain extensive service life
- Appropriate cleaning and re-activation provide an exceptional sterile surface
- Flexible over wide temperature extremes, resistant to thermal shock
- Non-flammable in application, non-combustible as a finish coating

APPLICATION

All surfaces to be coated must be clean, dry, and completely free of loose particles, grease, oil, or any substance that could interfere with proper bond. Surfaces to be coated must be 5°F above dew point during application and dry-time. Polagard Silver FP consists of

three components. The first step is to blend the silver dust component into the resin component and mix for two minutes until thoroughly dispersed. The next step is to add the hardener component and stir for three minutes, then allowed to sit for 10 minutes or as long as necessary for all air to escape. Polagard Silver FP is normally applied as a top coat over Polagard Classic or Andek Firegard. The basecoat must be thoroughly dry before application of the Polagard Silver FP.

Polagard Silver FP may be applied by brush or airless spray in a thin, even coat. When lapping spray passes, remove runs with a roller or brush. Always maintain a wet edge throughout application. Final strokes or passes should all be in the same direction.

Equipment may be cleaned with water while the Polagard Silver FP is still wet.

LIMITATIONS

Do not use below 40°F. Do not apply if the application cannot be protected from precipitation for 4 hours. Shelf life is 12 months when stored in proprietary containers between 45°F and 95°F.

MAINTENANCE

Damaged areas should be thoroughly sanded and cleaned and then recoated. Dirt accumulations may be removed with warm water and detergent. Periodically, if a nutrient source such as pollen, etc., remains on the surface, this should be removed with warm water and detergent, then spritzed with Andek Re-Activator.

SPECIFICATIONS	
Coating Type	Fluoropolymer urethane
VOC	80 gms/liter
Pot Life	6 hours
Shelf Life	1 year (unopened) from date of manufacture
Recommended Thicknesses	2-3 mils Dry Film Thickness (DFT) per coat
Coverage	Approx. 350 to 400 square ft/gallon, depending upon substrate
Packaging	1 gallon pail
Color	Silver

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Performance
Coatings & Sealants
Systems

PRECAUTIONS

Read the container label warning and Safety Data Sheet (SDS) for important health and safety information prior to the use of this product.

Keep out of reach of children and pets.

For additional information, contact our Technical Department.

TECHNICAL DATA		
Hardness	4H	ASTM D-3363
Elongation	50%	ASTM D-412
Water Absorption	Zero	ASTM D-570-77
Impact Resistance	4 mm indentation	No cracking or loss of adhesion
Solids Content	48% (B.W.); 45% (B.V.)	ASTM D-1044
Flashpoint	Non-flammable	FTMS-141A(M4293)
Tensile Strength	2,000 psi	ASTM D-412
Low Temperature Flexibility	180 deg. Bend @ 20°F	ASTM C-711
Drying Time	1 hour @ 70°F (50% R.H.)	
Cure Time	24 hours @ 70°F (50% R.H.)	
Weatherometer	Pass	ASTM G-23
Anti-microbial Activity Bacteria 1	99.9% reduction of staphylococcus aureus ATCC 6538	Shake flask method KSJ 4206-2008
Anti-microbial Activity Bacteria 2	99.9% reduction of Escherichia col 1 ATCC 25922	Shake flask method KSJ 4206-2008

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