



Smart Coatings & Functional Materials

Siloxacorr™ Hydrophobic Siloxane

High Performance Finish

PRODUCT DESCRIPTION:

Siloxacorr™ Hydrophobic Siloxane is a glossy, weather and chemical resisting top coat which exhibits outstanding long term gloss and color retention. **Siloxacorr™** is formulated with hybrid organic/inorganic resins and inorganic hydrophobic particles. It is for use as a high-performance finish coat. It can also be used in conjunction with **Allocorr™ Protective Ceramic Alloy** to provide additional corrosion protection, impact and abrasion resistance. It is available in a wide range of colors (Details on request).

TECHNICAL DATA:

Components	Two
Mix Ratio	4:1
Type	Low VOC hybrid epoxy siloxane - hydrophobic
Curing Mechanism	Chemical Reaction
Induction Time	None
Pot Life	6.5 hours at 50° F (10° C) 4 hours at 70° F (20° C) 1-1/2 hours at 85° F (30° C)
Thinner	Not normally required; Xylene, maximum 10% (HAPS exempt on request)
Clean-up	Xylene
Adhesion ASTM 4541	1200 PSI or higher
Operating Service Temperatures	-50° F to 212° F (-45° C to 100° C)
UV Stability	No discernible change after 18 months natural exposure
Color	White or range of colors on request
Finish	Gloss
Recommended Dry Film Thickness (Each Coat)	3 to 5 mils / 75 to 125 microns
Substrate Temperature During Application	45 - 120° F (10 - 50° C)
Humidity During Application and Cure	Above 40% RH recommended
Dew Point	Substrate must be 5° F (3° C) above Dew Point
Dry Time (3 mils DFT (50% R.H., 70° F (21° C)	To touch: 2.5 hours To handle: 6 hours To recoat with self: 3 hours
Dry Time (3mils DFT) (50% R.H., 85° F (30° C)	To touch: 1 Hour To handle: 3 hours To recoat with self: 2 hours
Volume Solids	94% (+/- 2%) (96% +/-2% by weight)
Theoretical Coverage at 1 mil DFT	1,508 sq ft per gallon
at 25 microns DFT	40.5 sq meters per liter
Theoretical Coverage at 3 mils DFT	503 sq ft per gallon
at 75 microns DFT	13.5 sq meters per liter
VOC	EPA Method 24: <50 g/l (0.4 lbs/gal)
Weight	11.88 lbs per gallon
Packaging	1 gallon kits; 5 gallon kits
Storage Temperature	50 - 110° F (10 - 43° C)
Shelf Life	Maximum 1 year

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PRECAUTIONS:

This product is for use only by professional applicators in accordance with information in this data sheet, API contractor training, and applicable SDS. Consult Safety Data Sheets for Siloxacorr™ Hydrophobic Siloxane and curing agent. Wear appropriate personal protective equipment when mixing and applying Siloxacorr™. Apply this product in accordance with all relative Federal, State and Local health, safety and environmental regulations and in compliance with all pertinent regulations as well as good safety practices and recommendations in SSPC PA-1, "Shop, Field and Maintenance Painting of Steel." Dispose of any spills, clean-up solvent, empty cans and other waste in compliance with all local guidelines and regulations.

WARRANTY:

Advanced Polymerics, Inc. warrants that its products are free from defects in material and workmanship. Advanced Polymerics, Inc.'s sole obligation and buyer's exclusive remedy shall be limited to replacement of products not conforming to this warranty. Any claim for replacement product must be made within one year from the delivery date. Advanced Polymerics, Inc. makes no other warranties, expressed or implied, such as warranties of merchantability or fitness for a particular purpose. Advanced Polymerics, Inc. products are intended for Buyers with the knowledge and skills to evaluate the suitability of Advanced Polymerics, Inc. products for Buyer's intended use. In no event, shall Advanced Polymerics, Inc. be liable for consequential or incidental damage.

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Advanced Polymerics, Inc.
10-12 Delaware Drive, Unit 1
Salem, NH 03079

(603) 328-8177 - Phone
(603) 328-8945 - Fax
www.api-smartcoat.com

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Preliminary Data Sheet