



NanoSonic, Inc

PRODUCT INFORMATION

www.nanosonic.com

HybridShield® Anticorrosion Coating NSM-HS-ACE

Exceptional Corrosion Protection

HybridShield® Anticorrosion Coating is a single component, environmental protective material designed to protect marine, automotive, aerospace, shelter, communication, and other structures from harsh corrosive environments. Metallic test surfaces with HybridShield Anticorrosion protection have endured more than 12 months of continuous beach exposure, as well as more than 5 months of continuous salt fog exposure without signs of corrosion from previously introduced defects. HybridShield Anticorrosion is exceptionally durable and exhibits negligible change in color and gloss following rigorous abrasion, UV weathering, impact, humidity, scratch, and chemical resistance testing.



Environmental Durability

- ASTM D4060 Taber abrasion: < 30 mg weight loss after 1,000 wear cycles with CS-17 wear wheels with a 1 kg load (wear index < 30)
- High velocity rain and sand erosion durability on metallic and composite substrates
- ASTM G154 and G155 accelerated weathering durability
- Passed > 2,000 hours of ASTM B117 Salt Fog, 1,200 cycles of GM 9540P Accelerated Corrosion, and ASTM G44 Alternate Immersion Corrosion Protection Validation to Metallic Substrates

Excellent Chemical Resistance: ASTM C650, 24 Hour Spot

Chemical	Resistance
Acetone	10
Ammonium Hydroxide	10
Ethyl Alcohol	10
Hydrochloric Acid (conc.)	10
Phenol	7
Phosphoric Acid	6
Sodium Hydroxide (50%)	10

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No Warranties: Product is sold with no warranties, representation or guarantees expressed, implied or otherwise.



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Physical Characteristics

- One part system: low-VOC, moisture-cured coating
- Tack free: within 4-hours and fully cured within 24 hours above 25 °C
- Standard colors: black, white, and semi-transparent
- Finishes: high gloss, semi-gloss, and matte
- Recommended coating thickness: 1 to 2 mils
- Coverage: approximately 800 ft²/gallon



Offroad Research Bumper Spray Coated with
HybridShield Anticorrosion Coating

Deposition / Color Availability

HybridShield Anticorrosion Coating is formulated for application with HPLV spray equipment in the most demanding environments. It is currently available in black, white, and semi-transparent. It has excellent adhesion to a variety of surfaces including, but not limited to, metals, composites, concrete, and glass. NanoSonic also provides customized in-house coating and custom color services. Contact NanoSonic for brush and roll-on viscosities.

Surface Preparation

HybridShield Anticorrosion Coating should be deposited on clean and dry surfaces. Adhesion increases with substrate abrasion and can be applied to primed or unprimed surfaces.

Product Information

For additional product information, please contact a NanoSonic sales representative:

Phone: 540.626.6266

E-mail: sales@nanosonic.com