



*NanoSonic, Inc.*

PRODUCT INFORMATION

[www.nanosonic.com](http://www.nanosonic.com)

**HybridShield® Icephobic Aerosol  
NSM-HS-ICEA  
Instructions for Use**

**Product Description**

HybridShield® Icephobic Aerosol provides a combination of icephobicity and environmental durability in an easily applied one-part, moisture cured, copolymer coating. Ice adhesion strength is drastically reduced on surfaces coated with HybridShield Icephobic Aerosol, which results in a significant reduction of force required to remove ice.

Application Surfaces:	HybridShield Icephobic Aerosol is readily applied to metal, composite, polymeric, and fabric surfaces.
Application Conditions:	Apply outdoors or in a well-ventilated area free of dust. Ideal use conditions are 40—90°F (4.4—32°C) and below 85% humidity. Application window may be shortened in high heat and/or high humidity conditions. Cover surrounding surfaces to protect from spray mist.
Surface Preparation:	HybridShield Icephobic Aerosol is a clear, high-gloss topcoat that can be applied to a variety of surfaces and/or be used as a topcoat. Prewash all surfaces with appropriate detergent to remove all dirt, grease, oil, and contaminants prior to application. Smooth uneven, preexisting surface coatings with brush or sandpaper. Ultra-smooth surfaces may be sanded with very fine grit ( $\geq$ 180 grit) silicone carbide sanding paper prior to coating. Ensure surfaces are dry and dust free before application. Final topcoat performance is influenced by surface contamination.
Application:	HybridShield Icephobic Aerosol may be applied multi-directionally to both flat and shaped surfaces. Prior to application, shake aerosol can vigorously for 3-5 minutes. Coat surface in slow, even passes holding can upright, 12" from surface. Passes should overlap, and uniform distance from the surface should be maintained throughout each pass. A cross pass pattern is recommended. Testing the spray pattern on cardboard is highly recommended. Several coats (approximately 3-5) are recommended for optimum performance. Each coat should be deposited 5 minutes apart with vigorous shaking of the can between coats. Ideal dry film thickness is 0.1 mm (4 mil). Do not invert can when spraying. Do not use near open flame.



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Drying:	HybridShield Icephobic Aerosol is tack free within 30 minutes at 70°F (21°C) and 50% humidity. Best performance occurs after 12 hours.
Cleanup and Disposal:	Wipe spray nozzle prior to storage. Store aerosol can in clean, dry location. Discard empty aerosol cans appropriately. Do not burn or place empty can in trash compactor. Clogged nozzles may be wiped clean with, or removed and soaked within, acetone or any other household solvent. Do not insert any object into the stem opening of the aerosol can. After cleaning, discharge HybridShield Icephobic Aerosol through the nozzle onto a test surface prior to returning to surface coating.
Shelf Life:	Unused for 6 months at temperatures < 104°F (40°C)
Topcoat Care:	HybridShield Icephobic Aerosol is resistant to ice and abrasion. Coated, cured surfaces can be wiped with soft, wet cloth.

**Product Information:**

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

Phone: 540.626.6266

E-mail: [sales@nanosonic.com](mailto:sales@nanosonic.com)