

HybridShield/Sil[®] Fire Retardant Coating



The right side of a derelict building was treated with HybridShield.

NanoSonic's HybridShield/Sil[®] Fire Retardant Coating is an advanced polymer-based nanotechnology that provides state-of-the-art fire and flame protection to a broad spectrum of materials without the threat of toxic byproducts during combustion. These hybrid protective coatings may be applied to metallic, ceramic, polymeric, and composite structures using simple and low-cost coating techniques.

TECHNOLOGY DESCRIPTION

HybridShield fire retardant non-halogenated, low-VOC coating materials are provided as conventional two-part resins that may be deposited through bulk casting, painting and airless spray techniques. The processing times of the mixed resins may be tailored for 20 – 60 minutes at room temperature followed by curing within 24 hours. HybridShield has passed numerous ASTM and other standardized material tests and outperforms known easily-applied fire retardant material systems. Shown below is the simple spray application of HybridSil on a test fiber reinforced polymer composite panel, and advanced fire retardance testing of a HybridShield-coated test structure.



MAJOR PROPERTIES

- Winner of 2011 R&D100 Award
- Superior flame protection
- Non-toxic smoke
- Applied by spray, painting or casting
- Metallic, ceramic, polymeric, and composite structures applications
- Application at room temperature
- Short curing times

ORDERING INFORMATION

For pricing or additional product information, please contact our HybridSil sales representative:

Phone: 540.626.6266

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