



HUDSON VALLEY COATING, LLC
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TECHNICAL SPECIFICATIONS DATA SHEET

The Vortex Liner Material used by Hudson Valley Coatings, comprises of a Plural Component, Polyurethane/Polyurea blended base component with a low viscosity, non-temperature sensitive isocyanate catalyst formulation.

Vortex and Granitex materials meet the guidelines set for USDA/FDA applications for incidental food contact which is certified by the manufacturer.

This unique, exclusive, cross linking blend of materials results in an incredibly durable surface coating of extremely high impact resistance and durability normally found in very expensive polyurea blends normally 4 to 8 times the cost. High chemical resistance, abrasion resistance and wearability lend to a long lasting, industrial coating.

FDA AND USDA APPROVED FOR INCIDENTAL FOOD CONTACT AND STORAGE

Vortex® meets regulatory standards set by the Food and Drug Association and the United States Dairy Association under Title 21 / Section 175 (Indirect Floor and wall coatings requirements for Polymeric Coatings).

It is safe to use in with incidental food contact on walls and floors for food storage, lockers, freezers, refrigerators, and other storage compartments for food. Recommended for use in Restaurants, Laboratories, and Manufacturing Facilities.

THERMAL CONDUCTIVITY

- Vortex creates an insulating blanket over virtually any surface
- Save money on energy bills as the temperature can be maintained by sealing off the leaks.
- Less than 1% transfer of heat and cold - extremely low when compared to other materials like brick (98%) or metal (100%).



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CHEMICAL RESISTANCE

Ethyl Alcohol Resistance Immersion Test

Saturation of Vortex Flex and Vortex Industrial samples into a solution of 12.5% concentration of Ethyl Alcohol showed no signs of degradation of the product its elasticity or flexibility. The product was found to have no effect even after a long period of immersion.

After a lapse of 1 hour: no effect
After a lapse of 2 hours: no effect
After a period of 3 days: no effect
After a period of 5 days: no effect

Chemical	Resistance Factor
Acetone	Some effect (swelling, discoloration, cracking)
Dimethyl Formamide	Not Recommended
Gasoline, Unleaded	No Damage
Brake Fluid	Some effect (swelling, discoloration, cracking)
Methol	No Damage
5% Methanol/gasoline	Little damage, discoloration
Hexane	No Damage
Hydraulic Oil	No Damage
Motor Oil	Little damage, discoloration
Propylene Carbonate	Some effect (swelling, discoloration, cracking)
Sulfuric Acid concentrate	NR
Sulfuric Acid (50%)	NR
Sulfuric Acid (10%)	Little damage, discoloration
Water	No Damage



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Flexural Modulus (Compaction/Impact Factor)	52,00+ PSI (ASTM D790)
Abrasion Resistance	FIA No. 2, 302, and 800
	>0.075 – 250 cycles
	>0.075 – 500 cycles
	>0.14 – 1000 cycles
Impact Resistance /Ft.—Lbs.	4.5 (ASTM D256)
Impact Resistance /Ft.—Lbs. at -40 °F	0.4 (ASTM D256)
Viscosity Average in Centipoises Scale	371 (cps)
Color	Various
Set up time from Spray Gun	Approximately 4 seconds
VOC Amount (Volatile Organic Compounds)	0
Percent Solids	100%
Flammability	Non-Flammable (OSHA code 173.120)
Combustibility	Non-Combustible (OSHA code 173.120)
Chlorofluorcarbon (CFC) Release	None
ISO Release from product	<1/100th of 1% volume
USDA/FDA Incidental Food Contact	Meets Standards
Fire Rating (Flash point) on wet, non-catalyzed material)	Resin=324 °F (172 °C) Activator=Greater than .230 °F (110 °C)