HUDSON VALLEY COATINGS - An Introduction

Hudson Valley Coatings is a completely mobile, versatile, and certified spray coating company. We currently service commercial clients in the Hudson Valley, Long island and New York City.

Vortex sprayed on coating is a unique blend of polyurethane and poleyureia. It provides almost any surface with an unmatched protective coating. In addition to superior impact **resistance, Vortex it is chemical resistant, anti-microbial, mold and mildew resistant**.

In today's market place, nothing is as valuable as service! We take pride in being able to offer a patent pending product that has been created in the USA with an application process that does not harm the atmosphere.

Vortex can provide a long-term waterproofing solution. It will protect any surface from excessive wear, corrosion and impact.

Our client list includes

- Restaurants
- Wineries
- Laboratories
- Manufacturing Facilities
- Hotels
- Schools
- Super Markets
- Custom Homes

and more…

Vortex is FDA/USDA approved for incidental food contact.

All of our work comes fully insured and is backed by a written guarantee from cracking, chipping, or peeling. You can expect to have a lifetime of protection with your new floor from Hudson Valley Coatings.

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Technical Information

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 isocyante catalyst formulation.

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

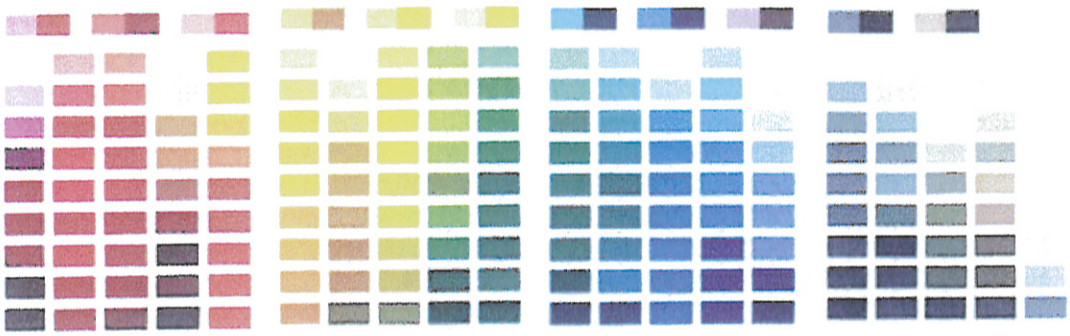
This unique, exclusive, cross linking blend of materials results in an incredibly durable surface coating of extremely high impact resistance and durability normally found in very expensive polyurea blends normally 4 to 8 times the cost. High chemical resistance, abrasion resistance and wearability lend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

COLOR CHARTS



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%).

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**
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)

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