

SermaShield™ 100 Powder Coating

Description

SermaShield 100 is a seamless fluoropolymer coating system designed to protect processing equipment from chemical attack and provide abrasion resistance and thermal shock resistance in continuous operating temperatures up to 300°F (149°C). The coating can be used with full vacuum rating over the entire pH range. SermaShield 100 also exhibits exceptional nonstick and impact resistant properties.

Advantages:

- Operating temperature range from -110°F to 300°F (-79° to 149°C)
- Full vacuum rating over the entire pH range
- Pinhole free
- Compatible with all substrates except some alloys with high copper content
- Field repairable
- Excellent corrosion resistance
- Complex geometries are easily coated
- Available in thicknesses from 15-40 mils (0.375 - 1.0mm)
- Compliant per FDA regulations 21 CFR
- Non wetting, nonstick surface



35 Gallon (132 Liter) Acid Tank



8 inch (203 mm) Venturi Tail

Applications

- Agitators
- Baffles
- Bellows
- Centrifuges
- Columns
- Dip Tubes
- Ducts
- Filter Housings
- Fume Hoods
- Gas Cylinders
- Heat Exchangers
- IBCs
- Piping Systems
- Plating Equipment
- Probes
- Pumps & Housings
- Reactors
- Spargers
- Storage Vessels
- Tanks
- Thermowells
- Vacuum Dryers
- Valves

Visit us online: www.sermatech.com

Sermatech Texas

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Sermatech Pennsylvania

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Sales

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PROPERTY	METHOD	SERMASHIELD
Tensile Strength at 23°C (73°F), Psi	ASTM D1708	5,500
Elongation, % at 23°C (73°F)	ASTM D1708	300
Flexural Modulus	ASTM D790	93,500
Specific Gravity	ASTM D792	1.75-1.79
Melting Point, °C (°F)	ASTM D3159	245-250 (473-482)
Maximum Use temp., °C (°F) varies with chemical exposure		150 (300)
Hardness, Shore D	ASTM D636	75
Coefficient of Thermal Expansion (linear)	ASTM E831	
-50° - 0°C		70.9
0° - 50°C		125
50° - 100°C		151
Taber Abrasion, (1kg load, mg removed/1000 cycles)	ASTM D4060	14.3

Note:
The suitability of SermaShield 100 for use is dependent upon process environment.

Please contact us to evaluate your process environment.

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