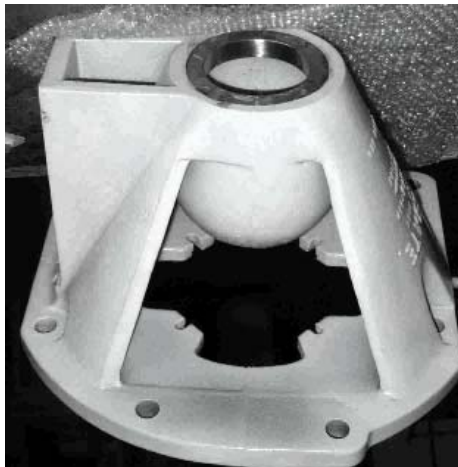


## SermaShield™ 400 Powder Coating

### Description

SermaShield 400 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 250°F (121°C). The coating can be used with full vacuum rating over the entire pH range. SermaShield 400 also exhibits exceptional nonstick and superior toughness along with excellent impact resistant properties.



*Pump housing for the chemical processing industry coated with PVDF for protection against corrosion and chemical attack*

### Advantages:

- Operating temperature range from -110°F to 250°F (-79° to 121°C)
- Full vacuum rating over the entire pH range
- Pinhole free
- Compatible with most substrates
- Field repairable
- Excellent corrosion resistance
- Complex geometries are easily coated
- Available in thicknesses from 15-80 mils (0.375 - 2.0mm)
- Compliant per FDA regulations 21 CFR
- Non wetting, nonstick surface

### 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](http://www.sermatech.com)

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#### Sales

Greg Groff  
Phone: 410-247-7799  
Mobile: 443-831-1536

## SermaShield™ 400 Powder Coating



PROPERTY	METHOD	VALUE
Tensile Strength at 23°C (73°F), Psi	ASTM D1708	4,500 - 5,500
Elongation, % at 23°C (73°F)	ASTM D1708	300 - 400
Flexural Modulus	ASTM D790	160,000 - 180,000
Specific Gravity	ASTM D792	1.76 - 1.78
Melting Point, (°F)	ASTM D3418	311-320
Maximum Use temp., °C (°F) varies with chemical exposure		121 (250)
Hardness, Shore D	ASTM D2240 70	
Coefficient of Thermal Expansion (TMA)	ASTM E831	
0° - 50°C		7.8 x 10 <sup>-5</sup>
Taber Abrasion, (1kg load, mg removed/1000 cycles) (CS-17 Wheels)	ASTM D4060 16.0 - 19.0	

Note:  
The suitability of SermaShield 400 for use is dependent upon process environment.

Please contact us to evaluate your process environment.

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