



SermeTel® Blue Corrosion Resistant Coating

SermeTel® Blue is a multilayer corrosion-resistant coating. The base coat consists of aluminum particles that are embedded in a phosphate-chromate matrix, which is cured and burnished to provide sacrificial corrosion protection. The top coat is an extra barrier against corrosion and heat resistance, while providing smoothness for efficiency.

Benefits

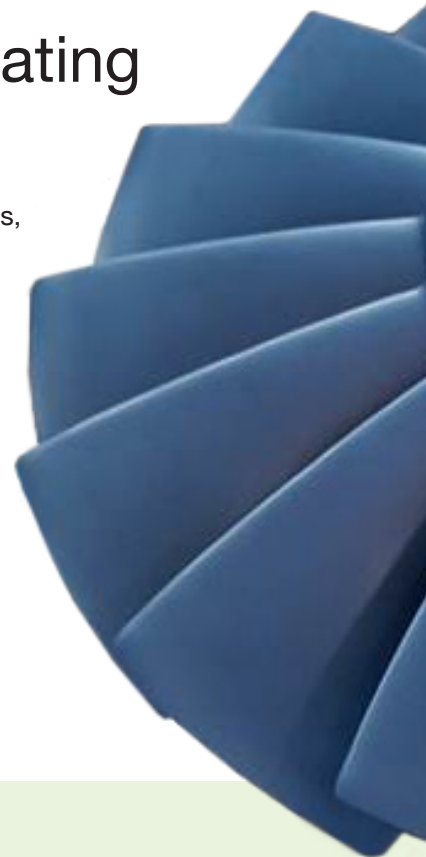
- Outstanding corrosion resistance due to hydrophobicity
- Excellent cyclic heat resistance
- Better erosion resistance than 5380 DP
- Smoothness retention up to 1050°F (565°C)

Advantages

SermeTel Blue is our next-generation coating for industrial gas turbine components. The high contact angle ranks its hydrophobicity as the best among inorganic SermeTel top coats. SermeTel Blue offers superior resistance to corrosion at high temperatures, while retaining smoothness for efficiency.

Applications

Compressor blades, hubs, vanes, and other components.



How to Get Started. Contact Us Today.

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SermeTel Blue on low-carbon steel after 7000 hours of Salt Spray test

Physical Properties

Thickness Range	0.8-2.0 mils/20-50 μm (typical)
Surface Finish	< 25μin Ra with 0.030" cut-off
Static Contact Angle	≥ 80 degrees with water

Performance Data

Test	Results
Salt Spray (ASTM B117)	No red rust after > 7000 hours
Cyclic Heat (850°F/450°C) – Salt Spray resistance	No red rust in scribe after 10 cycles
Erosion Resistance (ASTM D968)	> 300 liters/mil
Adhesion (ASTM D3359)	5B excellent
Bend (ASTM B571)	No chipping on 0.22" mandrel