

AF800 Series Victrex PEEK Coatings

AF800 Series PEEK Powder is applied to a substrate to create a protective coating. Typically used to improve chemical, corrosion, abrasion and wear resistance of metal substrates.

Thickness Range

Typical AF800 PEEK coating thickness range from 300µm to 500µm for powders and 25µm to 75µm for liquid dispersions

Tolerances

Typical coating thickness tolerance is $\pm 25\mu\text{m}$ on thin coats and $\pm 125\mu\text{m}$ on thick coats

Application Techniques

AF800 PEEK powder is typically applied by Electrostatic coating, Dispersion coating or the Fluidized bed process

Coating Thickness

Type of Coating	Description	Coating Thickness
Electrostatic Coating	PEEK Dry powder consolidated onto parts	100 – 1,000 µm (5 – 40 mil)
Dispersion Coating	PEEK Powder dispersed in a fluid and sprayed	25 – 100 µm (1 – 4 mil)

The range of PEEK Coatings

A Range of coatings based on Victrex PEEK Polymer is available

- Pure Victrex PEEK Polymer for corrosion and wear
- Combinations with graphite or ceramic for conductivity
- Combinations with PFA, FEP and PTFE for high temperature release and friction

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Why AF800 Series PEEK Based Coatings?

- Low friction abrasion resistant surface
- Corrosion resistance
- Harder surface with low particulate generation
- Broad chemical resistance
- Heat resistance to 260°C (500°F)
- Excellent steam resistance
- Excellent particulate abrasion resistance
- Excellent electrical insulator
- No cold Flow
- Non-Galling
- A cost efficient way of enhancing part performance in the Oil and Gas industry where the structural benefit of steel is required
- Can give combined excellent corrosion resistance, low friction and electrical insulation
- Can be combined with a number of other polymer ingredients to produce unique combinations of properties
- Coatings used in applications exposed to aggressive chemical environments at elevated temperatures and the erosive effects of sand or other debris

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