

## 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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All information is based on typical test results performed under specific conditions and limited sample size. This does not represent a legally binding guarantee of certain properties or the suitability for specific applications. All information is provided in good faith at time of print.

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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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