

Complex 3D shapes

Fine details

Flat plates

Tubes

Foils

Wires

Foams

Complex shapes

CoBlast Skins can be applied to almost any substrate geometry, as the nozzle is easily mounted on standard industrial robots and other automation equipment. The process is line of sight and allows for convenient masking of uncoated sections. In general, if you can grit-blast or micro-blast it, you can CoBlast it.

Delicate parts and fine details

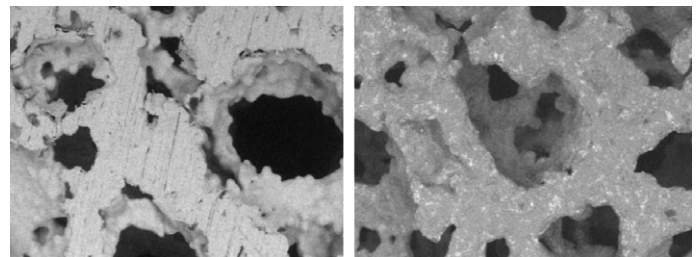
CoBlast Skins are typically 2-5 microns thick, meaning that fine surface details are preserved after coating. The abrasive and coating materials, and the process parameters, can be tailored to coat delicate parts with minimal mechanical or thermal damage. Skins have been applied to titanium foils as thin as 25 microns, and to delicate structures including stents and metal foams.



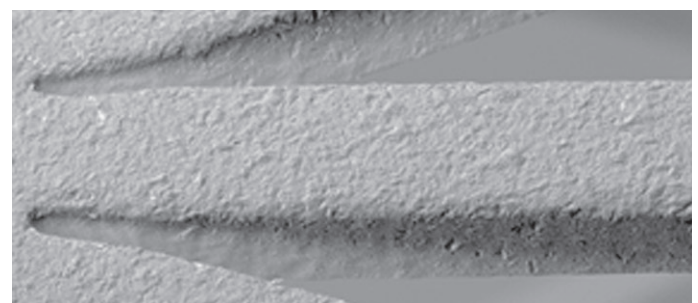
SolarBlack on Solar Orbiter component



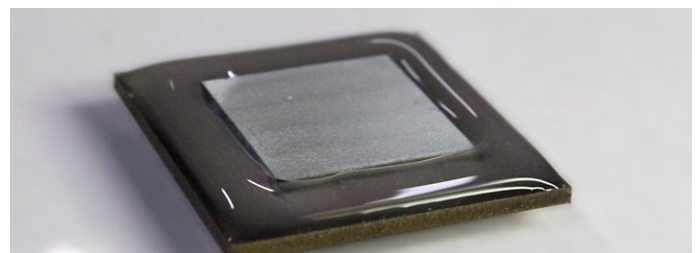
SolarBlack on 50 micron titanium foil



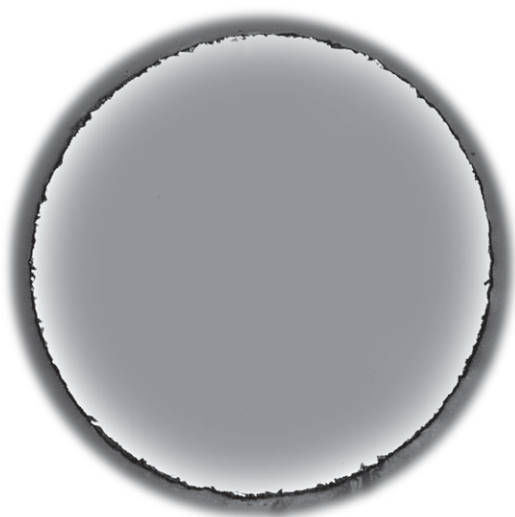
Uncoated and hydroxyapatite coated titanium foam



Hydroxyapatite coated nitinol stent



Hydrophobic PTFE coated stainless steel plate



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