

# InnerArmor Corrosion- Guard Coating

Duralar's InnerArmor brand CorrosionGuard coatings provide multiple effective mechanisms for blocking corrosion. They have no porosity or pinholes, and they are built up from multiple layers. The result is a much stronger barrier against the entry of oxidizing or corrosive agents. In addition, these coatings can be specifically tailored to different corrosive environments.

Application environments: Hydrogen sulfide (H<sub>2</sub>S), hydrofluoric acid (HF), hydrochloric acid (HCl), nitric acid (HNO<sub>3</sub>), sulfuric acid (H<sub>2</sub>SO<sub>4</sub>), salt (NaCl), methane (CH<sub>4</sub>), CO/CO<sub>2</sub> and more

<b>Thickness - µm</b>	30 - 80
<b>Hardness - GPa</b> Comparison Hardnesses - GPa	12 (adjustable to the application) Stainless 304: Typ <1,      Stainless 17-4: Typ <5, Inconel 718: Typ <3,      Chrome on Steel: Typ <10
<b>Deposition Method</b>	PECVD
<b>Deposition Temperature</b>	120-200°C (substrate dependent)
<b>Deposition System</b>	Duralar CS-10
<b>Applicable Substrates</b>	Carbon Steel, Stainless Steel, Al, Inconel, Ti Alloys, Ni/Ni Alloys, SiC
<b>Deposition Rate</b>	Typical >0.6µm / minute