

Blue Armor® coatings deliver tough, flexible, affordable protection

The proven alternative to exotic alloys and glass linings









Choose Blue Armor coatings for time-

Blue Armor coatings are a proprietary, seamless fluoropolymer system based on ECTFE. Modified for improved processing and abrasion resistance, Blue Armor coatings are a reliable alternative to glass linings and exotic alloys. When you need proven protection that offers an affordable way to handle harsh chemicals and enhance the life of your processing equipment, look to Blue Armor coatings.

Blue Armor coatings are a proven alternative:





- Spray-applied as a dry powder for improved flexibility; easily coats complex geometries
- Full vacuum rating over the entire pH range
- Repairable on-site
- Pinhole-free





- Metal-based, delivering structure and corrosion protection
- High cost/long fabrication time
- Limited weld quality
- Sensitive to some chemical environments

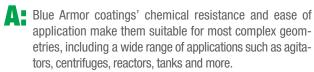




- High thermal conductivity; nearly impermeable
- Prone to fine cracking
- Sensitive to thermal and mechanical shock
- Limited in shape and design

FAQs:







Sensitivity becomes an issue with glass linings. There are also limitations to the shape and design of the coating. Blue Armor coatings—because they are spray applied as a dry powder—can be used to coat more complicated parts.

tested protection against harsh chemicals



Ideally suited for a variety of applications, including:

- Agitators
- Baffles
- Bellows
- Bollotto
- Centrifuges
- Columns
- Dip tubes
- Ducts
- Filter housings

- Fume hoods
- Gas cylinders
- Heat exchangers
- IBCs
- Piping systems
- Plating equipment
- Probes
- Pumps and housings

- Reactors
- Spargers
- Storage vessels
- Tanks
- Thermowells
- Vacuum drvers
- Valves

Maximum nozzle projection/section length	
Nozzle/column diameter	Blue Armor, Halar®, ETFE
1/2" – 1"	Pad flange
1" – 2"	Pad flange
2" – 2 ½"	12"
3" – 3 1/4"	12"
4"	18"
5"	36"
6"	96"
8"	96"
10"	120"
12"	120"
14"	120"
16"	144"
18"	144"
20"	168"
24"	Check with facility for maximum lengths

- Why choose Blue Armor coatings instead of exotic alloys?
- Exotic alloys are expensive and take a long time to fabricate.

 Blue Armor coatings deliver protection against the same harsh chemicals without pushing projects over budget.
- Have Blue Armor coatings been proven?
- Yes. We've applied over 1 million sq. ft. of Blue Armor coatings since their introduction. A time-tested solution, Blue Armor coatings have been proven in countless environments, protecting even the most complex parts.

Praxair Surface Technologies

Industry-leading services for chemical processing

> Signature solutions

Praxair Surface Technologies can create custom answers to your unique coating problems, adapting our application techniques to match your operating environment—so you can be assured you've got protection that fits.

> Experience and expertise

For more than half a century, we've been innovating and growing the way we coat high-performance parts. Our innovative research teams developed many of the materials and processes in use today throughout the industry.

> Repairable on-site

Blue Armor coatings have the distinct advantage of being repairable on-site in case of mechanical damage during use. Because of their ability to "melt-flow" at elevated temperatures, Blue Armor coatings can be repaired quickly and reliably. That means your parts are back up and working sooner, reducing costly downtime.

> Praxair's exclusive Coat2Go™ turnkey services

When you're ready to add additional processing equipment to your operation, let us do the work for you. Our exclusive Coat2Go turnkey services will:

- Purchase all parts and accessories
- · Coat each part for maximum protection in your operating environment
- Inspect, test, deliver and assemble the new parts

To learn more about **Blue Armor coatings** or our **Coat2Go** turnkey services, contact one of our custom coating engineers:

United States Italy

Houston, Texas Monte Marenzo +1 (713) 849-9474 +39 (034) 160-1111



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Telephone: Fax: +1.317.240.2500 +1.317.240.2255 www.praxairsurfacetechnologies.com info@praxair.com