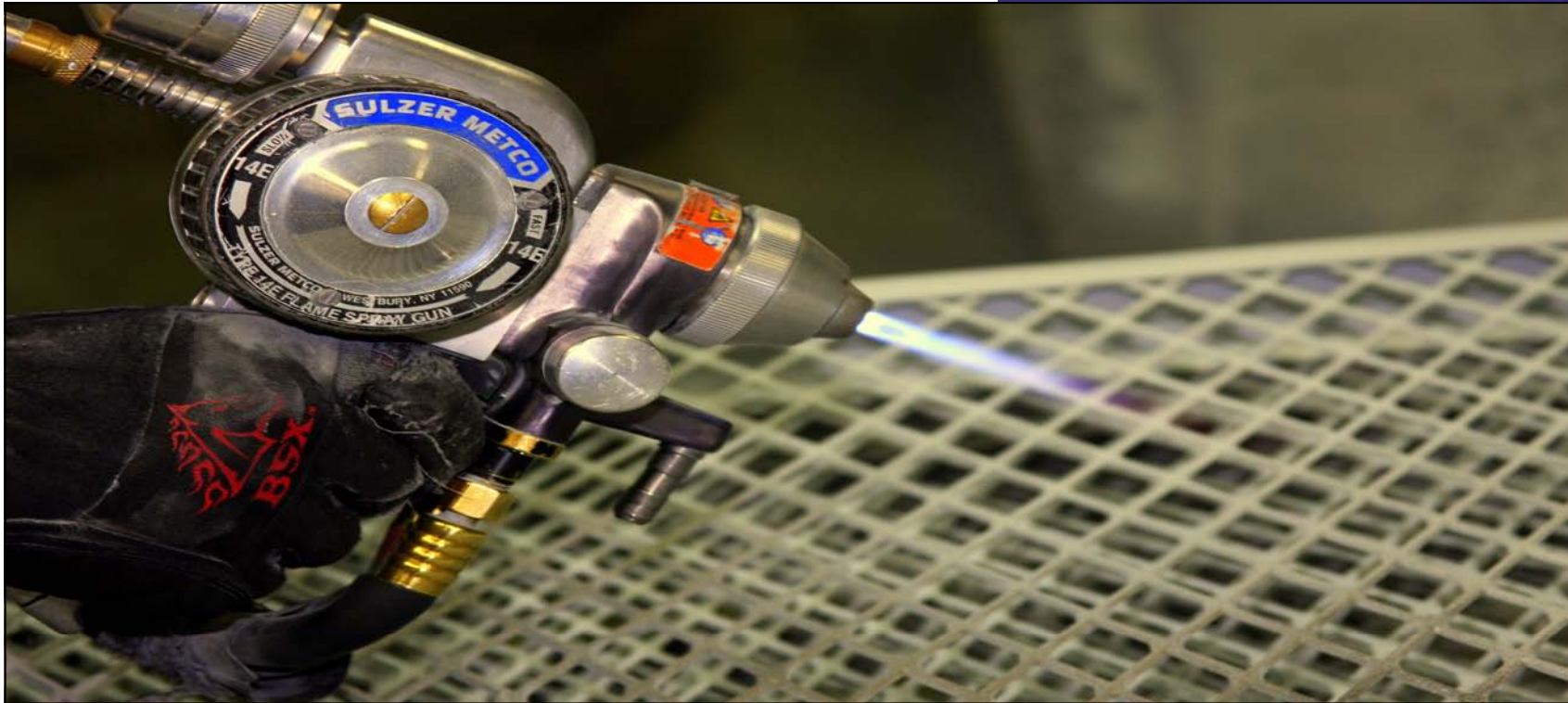
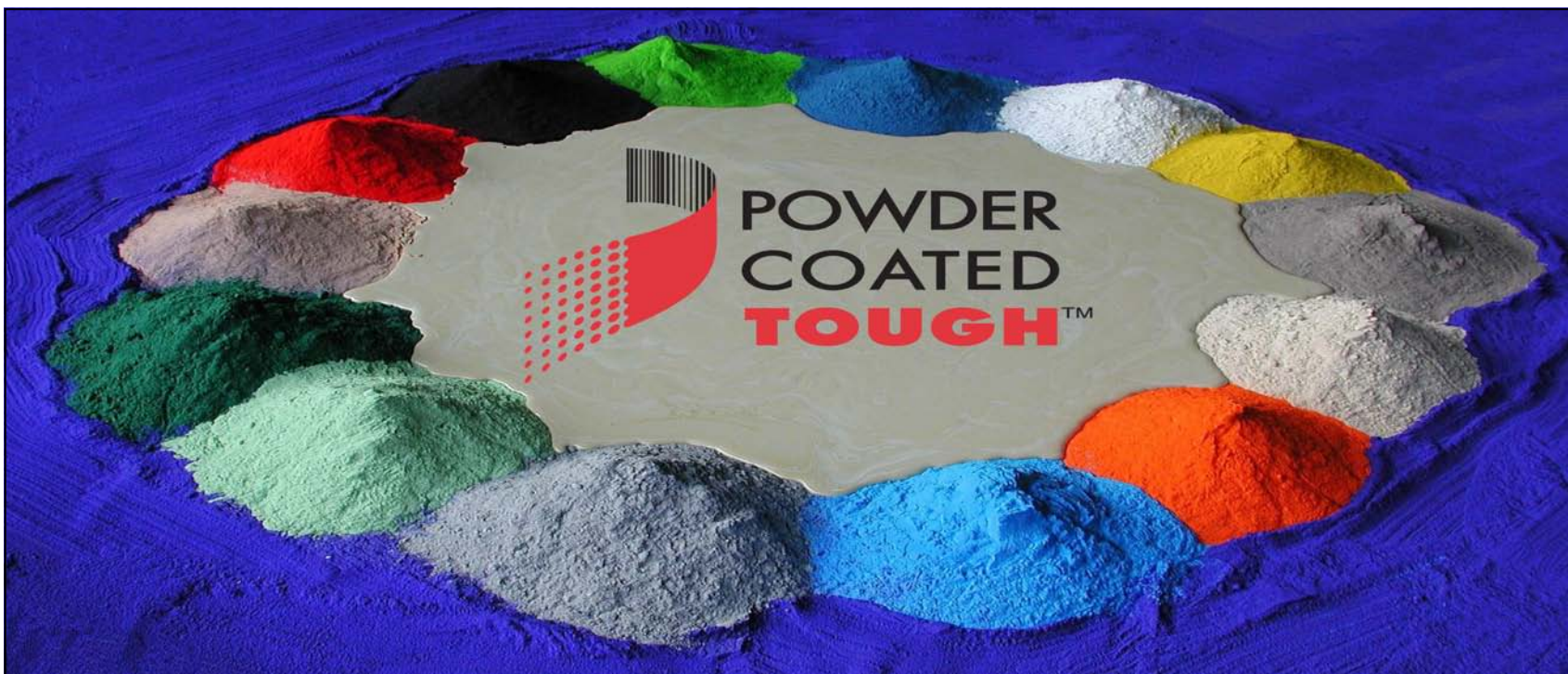


Sandblasting • Zinc Metallizing Powder Coating



ARCHITECTURAL METAL FINISHING WITHOUT DESTROYING OUR PLANET



www.avantguardscoatings.com

718 366 6565

info@avantguardscoatings.com

Sand Blasting , Zinc Metallizing and Powder Coating

Sand Blasting/ Media Blasting

Cleaning and surface preparation can be done from SSPC - SP7 Brush Off Blast up to SSPC—SP5 White Metal Blast Cleaned Surface. A white metal blast cleaned surface, is when 100% of the surface must be free of all visible oil, grease, dust, dirt, mill scale, rust, coating, oxides, corrosion products, and other foreign matter. No staining is allowed when viewed without magnification.



Zinc Metallizing

Zinc Metallizing, also known as thermal spray coating, is widely used in preventing the corrosion of metals. Metal wire or powder is fed at a controlled rate into a flame or arc spraying process and the atomized metal impinges upon the surface being coated and becomes bonded to it. The coating is able to form protective layers and can also work as a sacrificial anode. This protects the underlying steel or iron; resulting in minimal to no maintenance for years to come. 85/15 Zinc/Aluminum Wire is the most common used. When sprayed onto steel, the alloy produces a coating with the best anti corrosion protection.

Powder Coating

Powder Coating is a an environmentally preferred method of applying a finish that avoids traditional solvent-based liquid paints. It is a dry, free flowing powder applied electrostatically and then heat cured. Powder coat finishes are very tough and flexible and much harder to chip, crack, or peel than most other coatings. Meeting AAMA 2603, 2604, and 2605 Kynar and Thermoset Fluoropolymers. Powdercoating waste is non hazardous according to R.C.R.A.



www.avantguards.com
718-366-6565

Protect the environment while protecting against corrosion.

ZERO VOCs

NO CONTAMINATED WATER

ZERO HAPs

Avant Guards Coatings is committed to providing to our customers the best architectural metal finish available on the market from our state of the art sandblasting room that provides SSPC VIS 1 standards, to our Sulzer Metco 14E wire combustion thermal spray system that applies a 81/15 Zinc Aluminum coating to any steel surface for and excellent adhesion of primer and powder coatings. Avant Guards applies a Zinc Free OGF Primer as part of a superior corrosion protection to prevent outgassing and a tough powder coat exterior tested to AAMA 2603 with option up to AAMA 2605 and Kynar 500. Using superior corrosion protection keeps finishes looking brand new for over 20 years.

In addition to superior corrosion protection, we are committed to methods that are safe for the environment. All our powder coat finishes are exterior grade with Zero Volatile Organic Compounds (VOCs) and Zero Hazardous Air Pollutants (HAPs) released into the environment.

<u>Zinc Metallizing</u>	<u>Features</u>	<u>Hot Dipped Galvanizing</u>
Virtually no risk	Possible weld embrittlement, warping, overtempering	High risk
All waste products are collected and reused	Impact on Environment	Produces sludge that contaminates water
Application size unlimited	Application Surface	Size is limited
Low combustion hand held wire spray gun	Energy Consumption	Large amount of fuel required to heat immersion baths
Showed no sign of red rust corrosion after 192 hours of salt spray exposure	Corrosion Resistance (ASTM B 117)	Exhibited red rust corrosion after 120 hours of sea salt exposure
Total control of coating thickness	Coating Thickness	Inability to control the coating thickness
Can be done in the field	Touch Ups	Must be done in the shop

Avant Guards Coatings is a certified applicator of the following powder coatings:





Zinc Metallizing Standards

- Flexibility conical mandrel D522
- Pencil hardness test D3363 (H- 2H)
- Impact resistance test D2794
- Overbake resistance test D2454
- Abrasion resistance test D4060 (Mod)
- Humidity resistance test D2247
- Weatherability test D822
- Optimal adhesion according to ASTM D4541
- Exceeds environmental cycling testing as per ASTM D1735
- Superior corrosion protection in accordance with ASTM G85

Avant Guards Coatings is a proud member of the **The Society of Protective Coatings (SSPC)**.
Avant Guards Coatings thermal spray supervisors are certified in **MIL STD- 2138 SH**.



Powder Coating Standards

- Aluminum Corrosion Resistance – Humidity Resistance 3000 Hrs ASTM D 2247
- Aluminum Salt Spray Resistance – 3000 hrs ASTM B 117
- Steel Salt Spray Resistance – 3000 hrs ASTM 117– 90
- Cross Hatch Adhesion ISO 2409/ ASTM D 3359
- Mandrel Bending Test ISO 1519/ ASTM D 522
- Impact Test 1/10 in. Distortion ISO 6272/ ASTM D 2794– 90
- Cupping Test ISO 1520