



ARCHITECTURAL PRODUCT SOLUTIONS

Powder Coat Finish



Construction Specialties®



CS Powder Coat Finish

With over 75 years of excellence in architectural products, Construction Specialties has remained committed to delivering advanced finishing technologies and processes that meet the evolving needs of architects, engineers, and designers worldwide.

In response to increasingly stringent environmental standards—and our responsibility to help preserve and improve the global environment—we have leveraged our expertise to implement a state-of-the-art, eco-friendly powder coating finishing system.

Why CS Powder Coating

Compared to traditional liquid coatings, CS Powder Coating offers superior performance while significantly reducing—or even eliminating—the harmful environmental impacts typically associated with liquid finishes.



A high-performance eco-friendly solution

100% Fluoropolymer Resin

- Ensures long-term UV stability and weather resistance.
- Extends finish life, reducing maintenance and material use.
- Offers a more sustainable lifecycle than liquid coatings.

Zero VOCs

- No VOCs, improving air quality and reducing chemical exposure.
- Avoids many hazardous air pollutants found in liquid coatings.
- Aligns with EPA-recognized low-emission practices.

One-Coat Application

- Eliminates primer, reducing materials, waste, and process steps.
- Requires lower curing temperatures, saving energy.
- Provides efficient, single-coat coverage.

Superior Durability

- Resists wear, extending product lifespan.
- Minimizes touch-ups and refinishing.
- Lowers long-term material and maintenance needs.

Product Comparision

CS POWDER COAT	LIQUID ALTERNATIVE
Zero VOCs (volatile organic comounds)	Contains more than 50% solvent
EPA (Environmental Protection Agency) recommended	Contains HAPS (hazardous air pollutants) as classified by EPA
Contains 100% fluoropolymer resin	Contains only 50-70% fluoropolymer resin
One coat, no primer	2-3 coat application
4H hardness rating means superior scratch resistance	Hardness ratings range from only F to 2F
Maintains hardness, even at high temperatures	Rapidly loses scratch resistance as temperate rises
No hazardous waste	Hazardous waste



CS 20-year
Powder Coat
Warranty



CS Powder Coat Performance

CRITERIA	PERFORMANCE
AAMA 2605-5	Meets or exceeds
Gloss range (60°)	25-70%
Standard cure temperature	400° F / 15 minutes
Cure parameter	420° F / 7 minutes 400° F / 15 minutes 380° F / 20 minutes
Film thickness	1.5-3.0 mm
Impact on aluminum panel (4mm deformation)	Pass
Flexibility	1/8"
Hardness	3H-4H
Adhesion	5B
Abrasion resistance [ASTM d968] (coefficient value minimum 40)	Pass
Humidity (alodine panel, 22 gauge chromated aluminum substrate)	4000 hrs: blister ratings: minimum 8
Salt spray test (alodine panel, 22 gauge chromated aluminum substrate)	4000 hrs: <2mm creepage
South Florida exposure	2900 MJ, EMMAQUA* (approx. 10 years South Florida) Gloss rentention: >50% Color rention: ΔE <5.0

