AMERICAN BUILDING COMPONENTS


The ABC Signature® 200 Paint System represents the most sophisticated silicone polyester coating and warranty protection in the industry.

Signature® 200 offers optimum exterior protection plus superior resistance to chemical corrosion and ultraviolet radiation.

## Pre-Painted Metal Roof Panels

### Metal Coating

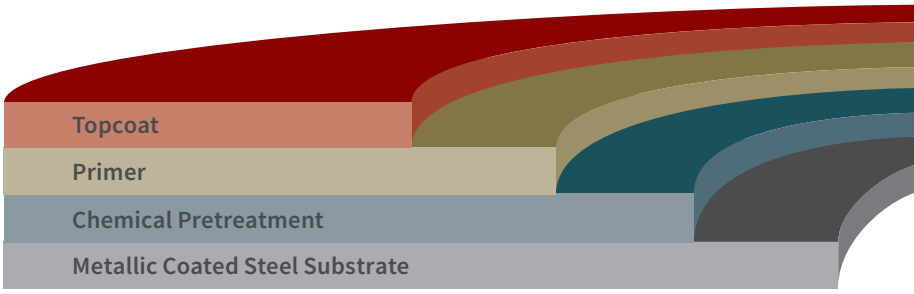
Paint consists of three parts: pigment, resin and solvent. After high performance finishes are factory-applied, the coated product is baked, and the solvents are released and incinerated leaving the pigments and resins on the substrate.

### Environmental Effects

Paints deteriorate over time primarily due to detrimental environmental factors including rain, pollutants and ultraviolet rays that break down resin and fade pigments, resulting in the loss of color and/or chalking.

## Coating System Components

First, the steel is pretreated to inhibit corrosion and promote paint adhesion. Next, a primer consisting of an epoxy modified polyester for improving adhesion and flexibility is laid down. Lastly, the topcoat consisting of 30 percent siliconized modified polyester (SMP), which minimizes chalk and fade, is applied.




**Topcoat (30 Percent SMP)**
Provides excellent chalk and fade performance

**Primer (Epoxy Modified Polyester)**
Improves adhesion and flexibility

**Chemical Pretreatment**
Inhibits corrosion and promotes adhesion

**Metallic Coated Steel Substrate**
Protects against undercutting corrosion through the sacrificial behavior of zinc

# Signature® 200 Paint System

PREMIUM PANEL COLORS

# Low vs. High Quality Paint System

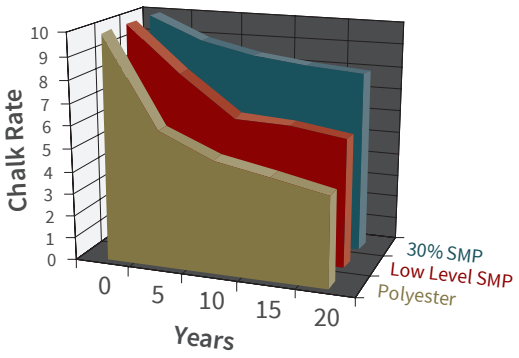
All paint systems will chalk and fade over time. Your warranty should explain how much chalk and fade is acceptable according to standard tests set forth by the American Society of Testing Materials (ASTM). the highest level of satisfaction and value.

## Chalk

**Higher is Better**

The stronger the resin, the more resistant it is to the sun and the environment. Chalking is caused by degradation of the resin system at the surface of the finish, due predominantly to ultraviolet (UV) rays. As the resin system breaks down, resin particles take on a white, chalky appearance, as embedded pigment particles lose their adhesion to the film. ABC's Signature® 200 paint incorporates a 30 percent SMP Resin, one of the strongest in the marketplace.

Failure in the Resin System Causes Chalking



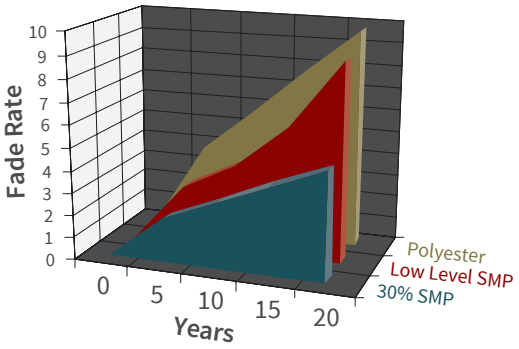

| | 0 Years | 5 Years | 10 Years | 15 Years | 20 Years |
|---|---|---|---|---|---|
| 30% SMP | 10 | 9 | 8.5 | 8.5 | 8.2 |
| Low Level SMP | 10 | 8 | 6.2 | 6.1 | 5.7 |
| Polyester | 10 | 6 | 5 | 4.5 | 4 |

## Fade

**Lower is Better**

Fading is caused when substances in the environment attack the pigment portion of the paint and cause the color to change. The right pigment is critical in formulating a finish that will resist fading. ABC's Signature® 200 paint only uses ceramic or inorganic pigments, the durability of which has been proven over hundreds of years of use in porcelain and ceramic products.


Failure in the Pigment System Causes Fading




| | 0 Years | 5 Years | 10 Years | 15 Years | 20 Years |
|---|---|---|---|---|---|
| 30% SMP | 0 | 2 | 3 | 4 | 5 |
| Low Level SMP | 0 | 2.75 | 4 | 6 | 9.1 |
| Polyester | 0 | 4 | 6 | 8 | 10 |

# How Much Fading is Acceptable?

The better the paint system, the less fade. Our industry standard of measuring fade is in Hunter (ΔE) units which evaluate or compare the difference in color in accordance with ASTM Standard D2244. The graphic shows four colors that represent the use of our Premium Signature® 200 Paint System with the original color on top.

Each of the subsequent four segments represents what the panel could look like over the course of 25-30 years of atmospheric and solar exposure. For more information regarding paint performance, please read the Performance Summary section of the warranty.


**Illustration is reproduced as accurately as possible, but paint colors may differ due to variables introduced during and inherent to the printing process.*