AMERICAN BUILDING COMPONENTS

Paint Facts

American Building Components is attempting to simplify the paint warranty so you can compare, evaluate and purchase a metal roof that provides the highest level of satisfaction and value. ABC has been providing metal roofing since 1908 and is committed to offering quality metal roofing, quality paint systems and quality service.

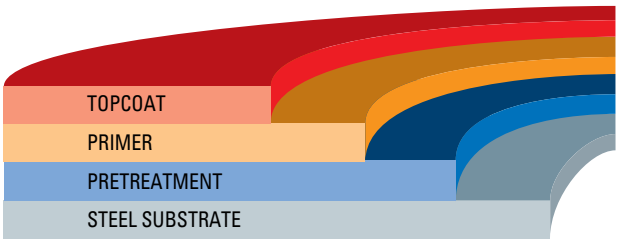
Low quality paint systems will not provide the high quality results that metal roofing owners desire. How do you tell the difference between a low quality paint system and a high quality paint system? One way is to look at the paint warranty. Your warranty should explain how the paint system performs over the life of the warranty and how this performance was measured. All paint systems will chalk and fade over time. The warranty will explain how much chalk and fade is acceptable according to standard tests set forth by the American Society of Testing Materials (ASTM).

Please inquire for additional color availability, pricing and lead-times.

For the most current information available, visit our website at www.abcmetalroofing.com

Prepainted Metal Roof Panels

Coating System Components



Top Coat (30% 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.

Coated steel, a pretreatment is applied which also inhibits corrosion and promotes adhesion. Next, a primer, consisting of an epoxy modified polyester for improving adhesion and flexibility, is laid down. Lastly, the topcoat is used consisting of a 30% siliconized modified polyester (SMP) which minimizes chalk and fade.

How Much Fading is Acceptable?

Every metal roof will fade over time. 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. Above are 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 may 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. (The above illustration is reproduced as accurately as possible, but paint colors may differ due to variables introduced during and inherent to the printing process.)

Paint Facts

The ABC Signature® 200 paint system represents the most sophisticated silicone polyester coating in the industry. It offers optimum exterior protection plus superior resistance to chemical corrosion and ultraviolet radiation.

What Is Paint?

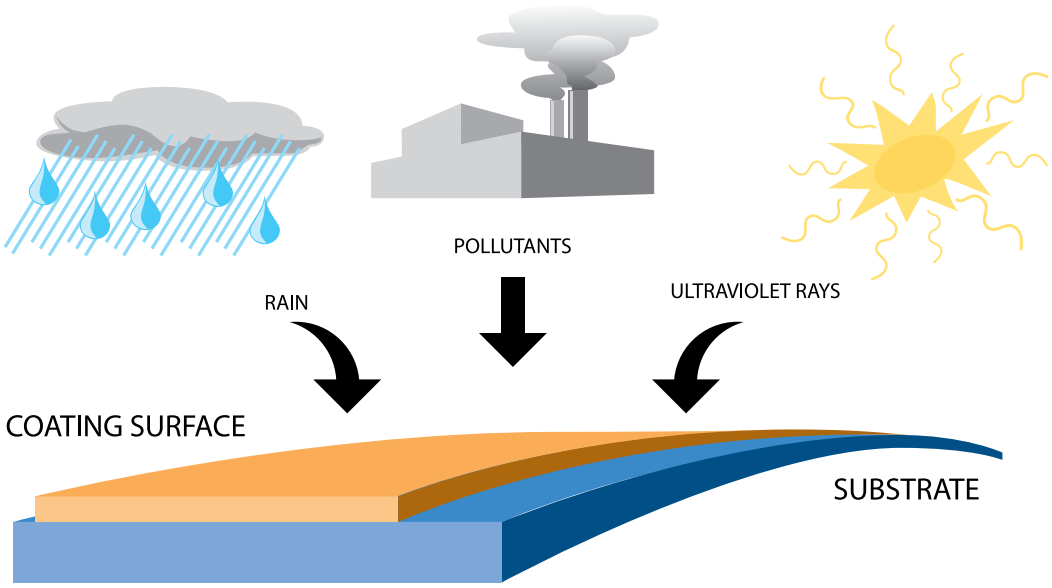
Paint consists of three parts: pigment, resin and solvent. After high performance finishes are factory applied, the coated product is baked, and the solvents are released and incinerated leaving the pigments and resins on the substrate.

Pigment: The Color

The right pigment is critical in formulating a finish that will resist fading. Ceramic and select inorganic pigments are recognized as offering the most durability, having proven this performance in hundreds of years of use in porcelain and ceramic products. Fading is caused when substances in the environment attack the pigment portion of the paint and cause the color to change. Signature® 200 paint only uses ceramic or inorganic pigments.

Resin: The Binder

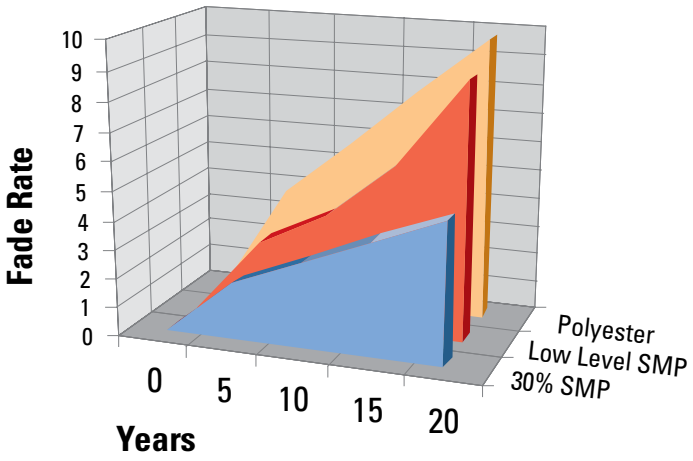
The stronger the resin, the more resistant it is to the sun and the environment. Chalking is caused by degradation of the resin system at the surface of the finish, due predominantly to ultraviolet (UV) rays. As the resin system breaks down, resin particles take on a white (chalking) appearance, as embedded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



Why Do Paints Fail?

Paints fail primarily due to rain, pollutants and ultraviolet rays breaking down resin and fading pigments resulting in the loss of color and/or chalking.

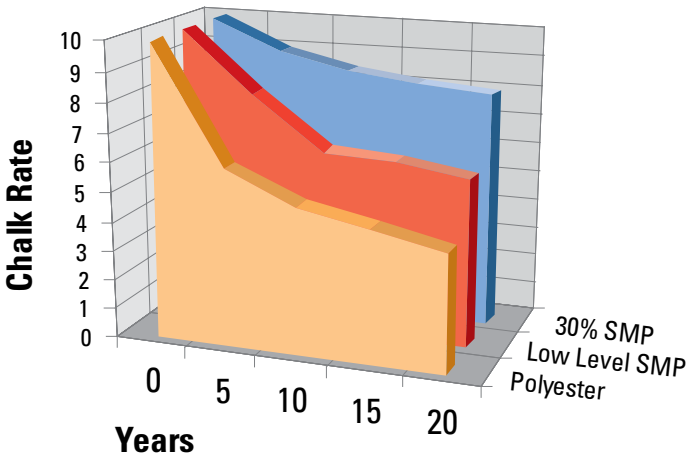
Fade: Lower is Better



Failure in the Pigment System Causes Fading

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

Chalk: Higher is Better



Failure in the Resin System Causes Chalking

	0	5	10	15	20
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