Aquacron® WSP

Waterborne shop primer

High-performance waterborne protection for structural steel fabrication

Developed to comply with some of the strictest sustainability regulations in the industry, PPG AQUACRON® WSP waterborne shop primer represents a low-VOC[1] alternative to traditional solventborne primers without compromising performance. Engineered for high-speed production environments and offering excellent application characteristics, they are an ideal choice for steel beam, joist and framing operations.

This cutting-edge primer provides lasting protection against rust prior to installation — even during extended outdoor storage — helping to reduce the need for sandblasting and other surface preparation. The emissions are similar to those found in standard residential-grade paints.

Aquacron WSP primer sets a new standard for sustainability while meeting the speed, production efficiency and durability demands of today's fabrication industry.

Suggested industries

Building and construction

Suggested end uses

Structural steel

Steel joists

Steel framing

Metal fabrication

The PPG benefit

Low VOCs with no reportable HAPs[2] (hazardous air pollutants)

Flexible application: available in both spray and dip formulations

Fast, versatile curing: force cure in under 5 minutes or air dry to handle in 1 hour

Protects against flash rusting during fabrication and storage — even outdoors

Aquacron® WSP

Product Characteristics	
Colors	Gray Spray: WSPPE1000 Gray Dip: WSPPE1001 Red Spray: WSPPR1000 Red Dip: WSPPR1001
Gloss @ 60˚	<10
Solids % by Weight	46± 2
Solids % by Volume	33 – 40 ± 5
Shelf Life	12 months
VOCs	Less exempts: 0.15 – 0.79 (18 – 94 g/L) With water: 0.15 – 0.29 (6 – 35 g/L)
Substrates	Cold-rolled steel, hot-rolled steel

Application	
Recommended Dry Film Build	0.60 – 1.4 mils (15 – 36 µ)
Cure Time / Temperature[3]	Flash time: 2 – 3 minutes Time at temperature: 3 – 5 minutes Oven temperature: 95 – 250° F (35 – 121° C)
Air Dry[3]	To touch: 25 – 40 minutes To handle: 1 hour

Performance Properties[4]	
Condensation (ASTM D4585)	Pass
Adhesion (ASTM D3359)	5B
Water Resistance (ASTM D4062)	Pass

1 Less than 0.20 lbs./gal (24 g/L).

2 HAPs as defined by Section 112 of the US Federal Clean Air Act are not present in the formulation at or above OSHA hazard communication reportable levels (0.1% for carcinogens and 1% for non-carcinogens).

3 Excess film thickness will slow dry times and affect the recoat window.

4 Results obtained using iron-phosphate-pretreated cold-rolled steel panels. Performance dependent on substrate, film thickness and pretreatment.

WARNING: Certain products listed may contain chemicals known to the State of California to cause cancer and/or reproductive harm. For more information go to **P65Warnings.ca.gov**.

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We protect and beautify the world®