

SPECTRACRON® W43181A Series Primers are 2K High Solids Urethane primers. They are designed to give excellent corrosion resistance and performance on steel substrates, along with fast topcoat times when using one of the *Spectracron* two-component polyurethane topcoats.

Substrates

- Cold rolled steel
- Hot rolled steel
- Galvanneal

Suggested Topcoats

- *Spectracron* branded epoxy and urethane topcoats

End Use Markets

- Heavy duty equipment
- Agricultural equipment
- Industrial equipment
- Building materials
- Customer coaters
- Metal fabrication

Product Codes

- W43181A – Gray
- W43181-WHT – Off White

Product Highlights

- Shared catalyst with urethane topcoats
- Excellent corrosion resistance
- Chrome and lead free
- Excellent impact resistance
- Increased throughput with wet-on-wet capabilities
- Strong chemical resistance
- VOC 3.0 lbs. /gal. (360 g/L)
- HAPS 0.4 lbs. /gal. (48 g/L)

Physical Properties

Property	Blended Value
Solids % by weight	77.7 ± 2.0
Solids % by volume	60.1 ± 2.0
Weight / Gallon	12.3 – 12.9 lbs. /gal. (1476 – 1548 g/L)
Coverage @ 1 mil, 100% TE	875 ft. ² /gal. (81 m ² /3.785L)
60° Gloss	50 – 100
VOC (less exempts)	3.0 lbs./gal. (360 g/L)
VOC (actual)	3.0 lbs./gal. (360 g/L)
Shelf life	2 years (each component)

Performance Properties

Test	Result*
Pencil hardness	HB - F
Conical mandrel (1/8")	Pass
Adhesion	5B
Salt Spray	500 hours
Humidity	300 hours

*results obtained over iron phosphate CRS panels



SPECTRACRON® W43181A Series

2K High Solids Urethane Primer

Substrate Protection

The surface must be clean and free of all surface contamination. A chemical pretreatment such as PPG Chemfos® KA Cleaner/Coater or a similar conversion coating will improve the performance properties of the coating system. See your PPG Representative for recommendations.

Cure Schedule

Paint film is not fully cured for 7 days. Drying time listed may vary, depending upon film build, color selection, temperature, humidity and degree of air movement.

Physical Properties

Air Dry Times¹

To Touch	30 – 45 min.
To Handle	1 – 2 hours
To Topcoat	After 10 min, before 8 hours

Force Dry Times

Flash Time	10 min. (ambient)
Temperature	Up to 160°F (71°C)
Time at Temperature	20 min.

Mix Directions

Blend Ratio ²	9:1 with Q3501 or 8:1 with GXH1086
Pot Life	1 – 2 hours
Reduction ³	Not recommended, but can use Q30, Q50, Q160, Q70 or TFS blends
Application Viscosity	As blended
Line/Flush Clean Up	Q70, Q80 or TFS999-90

Application

Equipment	Conventional, HVLP, air-assisted airless
Recommended Wet Film Build	2.0 – 3.5 mils 51 – 89 microns
Recommended Dry Film Build	1.0 – 1.8 mils 25 – 46 microns

Additional Information

In-Service Temperature: 250°F (121°C)
Do not apply at temperatures below 50°F (10°C)
Protect from freezing
Not recommended for use on zinc rich surfaces

Footnotes

1. Excess film thickness will retard dry times and affect the recoat window.
2. No-mixing or improper mixing can result in performance issues and curing issues.
3. Use of a reducer other than Q30 or TFS321-50 will increase VOC above 3.0 lbs./gal.

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PPG TRUEFINISH® Industrial Coatings, One PPG Place Pittsburgh, PA 15272, 1.866.PPG.TRUE

