

Quick Dry Primer

Technical Data Sheet (TDS)

Product Description

Crown Quick Dry Primer is one component, fast drying industrial finishing primer intended for coating a large variety of metal products. Not recommended for use on galvanized steel.

Product features:

- Quick drying
- Rust inhibitive
- Lead, chromate, and heavy metal free
- For use on ferrous metals

Recommended Uses

Quick Dry Primer is intended for industrial applications, either new build or maintenance. It is ideal for OEM finishing or refinishing “production line” environments due to its versatility and efficiency of application.

Industries:

- Oilfield & Energy Service
- Industrial Equipment
- Construction Equipment
- Agricultural Equipment
- General Metal Applications

Mixing

Quick Dry Primer is a single component ready to use product.

Stir each container thoroughly prior to use.

Product Characteristics

Typical Physical Properties Single Component	
Gloss:	Matte:<10 GU at 60°
Volume Solids: (Single Component Unreduced) P218 White	37% ± 1%
VOC (Unreduced): EPA Method 24 P218 White	522 g/l 4.353 lb /gal
Shelf Life:	
Quick Dry Primer	2 years
For unopened product (77°F (25°C))	
Weight Gallon: P218 White	10.2 ± 0.2lb/gal

Surface Prep

Surfaces to be finished must be clean, dry and free of dirt, oil or any contamination that would adversely affect adhesion, protective properties or appearance of the coating. Prepare metal surfaces to SSPC-SP2, SSPC-SP3 for normal requirements.

Note: for optimal corrosion resistance and adhesion, iron phosphate treatment is recommended and/or P300 Series Metal Primer.

For questions regarding other substrates contact your Crown Representative.

Application Method

Quick Dry Primer can be applied by most spray painting systems including heated systems, dip application and flowcoat processes. It can also be applied by advanced application equipment such as turbo disk or bell.

Note: Not recommended for brush or roller application over large areas. Small touch-up areas may be brushed.

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Spray Gun Setup

Feed Type	Fluid Tip	Application Pressures (heel of gun)	Fluid Delivery
Siphon Feed	1.6-1.8 mm	40-50 psi	
Gravity Feed	1.6-1.8 mm	30-40 psi	
Pressure Feed	1.4-1.8 mm	50-60 psi	10-14 oz/min
Air Assist Airless	9 -17 Thou	1,000-1,800 psi	
Airless	11-15 Thou	1,700-3,000 psi	

Spray Viscosity

Supplied Viscosity - [77°F (25°C)]	
Stormer Viscometer	65 -70 KU

Note: Material is packaged at a viscosity requiring little or no reduction for application by airless spray equipment.

Note: Spraying viscosity and thinning will depend on ambient conditions, spray equipment used, and the desired surface finish.

IF THINNING IS REQUIRED:	
Temperature Range	Recommended Thinner
Below 65° F (18° C)	Toluol /TS100
65° F- 80° F (18-27°C)	Xylol /TS105
Above 80°F	Xylol /TS105
Above 80°F: SC-100 or SC-150 can be used as a retarder solvent to reduce dry spray and increase flow and leveling. Limit the level of SC-150 to 5% as a retarder solvent.	
Note: VM&P Naphtha or Mineral Spirits should never be used.	

Film Build

Quick Dry Primer has a recommended film build thickness of:

Wet: WFT Unreduced	2.7 – 5.5 mils	69 – 140 microns
Dry: DFT	1.0 – 2.0 mils	25 – 50 microns

Theoretical coverage at 1.0 mil (25 microns)
 DFT: 593 ft² per gallon at 100% transfer efficiency.

Dry Times

	70°F (21°C)
To Touch	10- 20 Minutes
To Handle	30 Minutes
To Recoat	Min 1 Hour
Through Dry	18 Hours

Optimum drying conditions are 60°F to 90°F (16°C to 32°C) at 50% R.H. Lower temperatures and high humidity will slow dry time. Surface must be dry and at least 5°F(3°C) above the dew point.

Note: Product may also be force cured to enhance dry. Force cure temperatures in the range of 110-180°F (43 - 82 °C) may be utilized to accelerate solvent evaporation and speed oxidation.

Topcoating Information

Quick Dry Primer may be topcoated with the entire range of Crown Topcoats.

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Clean Up

Clean all equipment immediately after use with Xylol, Aromatic Solvent, Acetone, or MEK for spray guns and line, pots and other equipment.

Follow manufacturer's safety recommendations when using any solvent.

Ordering Information (sizing)

Package sizes available:
 Aerosol, 1 gallon, 5 gallons, 55 gallon drum,
 300 gallon tote.
 Custom colors and sizes may be available.

Environmental Conditions

For optimum coating performance product, substrate and ambient temperature should be above 50°F (10°C). To prevent condensation during application the surface temperature must be 5°F (3°C) or more above the dew point at all times.

Note: For use outside this range please contact your Crown Representative.

Specifications

Test	Test Method	Result
Salt Spray/Corrosion	ASTM B117	240 hours. no field rusting, less than 1/8" creep from scribe 336 hours w/P315
Adhesion:	ASTM D3359	5A; 100% B-1000 panel
Impact resistance	ASTM D2794	20 lbs direct 10 lbs reverse
Flexibility	ASTM D522	1/8 mandrel bend: Pass

Storage Conditions

Storing partially used container:

Pour a small amount of the recommended thinner over the surface. Do not stir. Replace lid securely. Store away from heat or open flame.

Mix thoroughly before reusing.

Safety Precautions

Please refer to all Safety Data Sheets (SDS) before using this product. SDS sheets can be obtained by contacting Crown Paint.