

# SURFACE TREATMENTS

## PRIMECOAT™ 8600 HEXAVALENT CHROMIUM, THIN ORGANIC COATING APPLICATION SHEET

### BENEFITS

- » **Outstanding corrosion protection**
- » **Excellent lubrication** - Reduces galling in deep drawing operations
- » **Anti-fingerprint properties**
- » **Transparent appearance**, even at higher coating weights
- » **Water repellent properties**
- » **Very low chromium leaching**

### APPLICATIONS

PRIMECOAT™ 8600 is a water-based, slightly alkaline, chromated, thin organic coating. It provides excellent corrosion protection and lubrication on zinc/zinc alloy coated steel strip by providing a transparent film that repels moisture.

COATING WEIGHT	STANDARD TEST METHOD	SUBSTRATE	RESULT
1.0 - 2.0 mg Chromium/ft <sup>2</sup>	Neutral Salt Spray (ASTM B 117)	Hot Dip Galvanized	>500 Hours <5% White Rust
		Galvalume	>1000 Hours <5% White Rust
	Constant Climate Humidity (ASTM D224)	Hot Dip Galvanized	>1000 Hours <5% White Rust
		Galvalume	>1000 Hours <5% White Rust
	1000 Hour QUV (EN 13523-10)	Galvalume	Passed, Non-Yellowing
	2000 Hour Butler Immersion	Galvalume	Passed, No Stain

### FLUID MAINTENANCE

PRIMECOAT™ 8600 should be used as received with no further dilution needed. The bath temperature should not exceed 100°F. It can be applied to the strip with a standard chemcoater followed by oven curing to a recommended peak metal temperature (PMT) range of 160 - 220°F. Confirmation of chromium coating weight on the strip surface can be measured by X-ray fluorescence (XRF).

To clean PRIMECOAT™ 8600 from the chemcoater, drain the majority of the material into a storage drum followed by water rinsing. If a residual film remains on the chemcoater rolls, it may be removed by wiping with methyl ethyl ketone (MEK).

A black and white photograph showing several large, stacked metal coils, likely made of steel, in an industrial setting. The coils are arranged in a row, with the focus on the one in the foreground.

## PRIMECOAT™ 8600

### HEXAVALENT CHROMIUM, THIN ORGANIC COATING

#### APPLICATION SHEET

#### STORAGE AND HANDLING

It is recommended to store PRIMECOAT™ 8600 in the original delivery packages (preferably plastic or stainless steel totes or drums) at a storage temperature of 45°F to 95°F and avoid freezing.

PRIMECOAT™ 8600 is safe when used as recommended by Quaker Chemical. Refer to the Safety Data Sheet (SDS) for proper handling and disposal procedures.

#### PROPERTIES

PROPERTY	TYPICAL VALUE
Appearance	Yellow Liquid
pH	8.2
Specific Gravity	1.015 g/cm <sup>3</sup>
Bulk Density	8.47 lb/gal

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