



**WORLDWIDE**  
COATING SOLUTIONS



## WCS25LF

Technical Bulletin

WCS25 is a single system, extreme pressure coating line that is VOC-compliant and formulated for high-pressure, low-speed applications. WCS25 provides long-term lubrication for surfaces subjected to pressures up to 150,000 psi. The coating uses a unique dual lubrication system of PTFE and MoS<sub>2</sub>, offering a superior option to “moly” greases that wash away, or PTFE coatings which have the potential to “cold flow.” WCS25 is a resin-bonded lubricant that stays on the job, even in harsh chemical environments.

### FEATURES

- Provides low coefficient of friction.
- Superior wear /abrasion resistance.
- High chemical resistance
- Superior application through various spray systems

### USES

Ideal for industrial and oilfield applications, including: Valves, Gaskets, Pistons, Manifolds, Scissors, and general machine components.

### PHYSICAL CHARACTERISTICS

**COLORS:** Solid. Can be mixed to client RAL color specification, with light color limitations.

**RECOMMENDED DFT:** .05-2.0 mils

Density: 9.7±0.25 lbs./gal

**THEORETICAL COVERAGE AT 1 MIL DFT, NO LOSS:** 625.0 sq. ft.

**SOLIDS RANGE:** 50.0±1.0 % by weight

**VISCOSITY AT 77F (delivered):** 50-60KU.

### CLEANING AND PRETREATMENT

The most critical factor in any quality paint job is substrate surface preparation.

Inadequate surface preparation can result in premature coating failure.

Please consult your cleaning and pretreatment supplier for recommendations.

- Substrates:
1. CRS- light grit-blasting or zinc phosphate pretreatment
  2. Aluminum: Chemical etch or light grit blasting



**Hentzen Coatings, Inc. Corporate Headquarters** 6937 West Mill Road Milwaukee, WI 53218-1225  
**Hentzen.com** | P 414.353.4200 | F 414.353.0286 | Coatings@Hentzen.com 08-24-21

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**DIRECTIONS FOR USE:**

Prior to application paint containers should be thoroughly agitated.

The coating temperature should be between 65F-90F, applied in an environment with a relative humidity <85%, or in a controlled environment.

Viscosity reduction: if viscosity reduction needed, use water reducer- add per desired viscosity and application meet.

**Application and Bake:**

DFT – 1. Apply multicoat to achieve desired dry film thickness- Flash off between coats are necessary (5’-10’at 200F-250F)

2. Full bake: 15’@450F for color and initial performances to meet

**Cured Film Properties:**

Substrate: ACT B-1000, P99; Bake time and temperature-15’@450F

Properties	Test method- Description	Test results
MEK double rub test	N/A	Pass- 50+
Pencil Hardness	ASTM D3363	2H-4H
Dry Tap Adhesion	ASTM D3359- Method B	5B
Water Immersion 96hrs	ASTM D870 Adhesion; Blisters	5B; 10 ASTMD714
Taber Abrasion	ASTMD4060; 1000 cycles; 1000grams; CS10 wheel; resurface every 500cycles	Weight loss(g): 0.01@ average DFT between 1.5-1.8mils.

**Cure Test:**

Moisten a clean, white rag with MEK to wipe a random area of the coated surface.

Coating should not wipe off onto the rag with a correct cure.

**SHELF LIFE**

Store unopened items in approved containers with proper labeling for up to two years.

Optimal storage temperature is approximately 77F.

**CLEAN UP**

Clean equipment immediately after each use per manufacturer’s recommendations.

**SAFETY PRECAUTIONS**

Please read all container labels and review Safety Data Sheets prior to use.



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