



WORLDWIDE
COATING SOLUTIONS

WCS1110 SERIES

The **WCS1110** Series is a resin-bonded, dry-film lubricant/nonstick coating series for dry lubrication in high-speed and/or low-temperature environments. Excellent chemical resistance and the greatest operating temperature range of any fluoropolymer coating.

Typical applications include: extreme performance racing components, rotary actuators, bearings, carburetors, chutes, conveyors and agricultural tools. This coating series reduces friction, prevents scoring and galling, as well provides secondary lubrication in the event of failure of the primary (conventional) lubricant. This series is designed to perform in extreme operating temperatures with superior abrasion resistance. Many colors are available utilizing Hentzen's Universal Color Concentrate technology.

FEATURES

Available in a wide variety of colors (light colors limitation).

- Provides low coefficient of friction.
- Excellent wear resistance.
- Good Chemical resistance
- Superior application through various spray systems

USES

Ideal for specialized industrial applications including Valve, Gaskets, Piston, Scissors, and General machine components.

PHYSICAL CHARACTERISTICS

COLORS: Solid

RECOMMENDED DFT: 1.0-2.0 mils

Density: 8.5-9.5lbs/gal

THEORETICAL COVERAGE AT 1 MIL DFT, NO LOSS: 350-450 sq. ft. (varies by color)

SOLIDS RANGE: 32-38% by weight

VISCOSITY AT 77F (delivered): 25-35" using EZ #3 Zahn Cup at 77F.

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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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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

DIRECTIONS FOR USE:

Prior to application, paint containers should be thoroughly agitated by shaking or stirring. Preferred Paint/Coating application temperature should be between 65F-90F. Viscosity reduction: If viscosity reduction is required, use 25996SST reducer.

Application and Bake:

- DFT – 1. Apply multiple coats to achieve desired dry film thickness- Flash off between coats is necessary (5'-10'at 200F-250F)
 2. Full bake: 15'@450F to meet initial performance and color.
 3. For Chemical resistance- 15'@550F-color may be affected.
 4. For good release property- 15'@650F- color will be affected.

Cured Film Properties:

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

Properties	Test method- Description	Test results
Pencil Hardness	ASTM D3363	2H-4H
Dry Tap Adhesion	ASTM D3359- Method B	5B
Water Immersion 96hrs	ASTM D870 Adhesion; Blisters	5B; 10 ASTMD714
Gardner Impact	ASTM D2794 Direct/In-Direct	>160 in-lb. passed
Humidity 98%/100F	ASTMD2247-21 day	10- no visual changed
Salt Fog	ASTM B117- 504Hrs.	Scribe-8 and field/blisters- 8/6
MEK double rubs	ASTMD5402- 50 cycles	No visual changed

Chemical Resistance 24hrs Spot testing:

Chemical (10%)	Swelling	Softening	Staining	Gloss Before	Gloss After
Harness	No	No	Slight	23.0	34.0



Double Play	No	No	No	26.0	32.0
Frontier	No	No	Slight	29.0	34.0
Outlook	No	No	No	27.0	33.7
Treflan	No	No	Slight	24.5	32.5

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 with NMP or 25996SST.

SAFETY PRECAUTIONS

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

Colors: Orange; Yellow; Blue; Red; Black; Green.

Products:

1. WCS1110- 26000KML Black.
2. WCS1110- 26001GML Green.
3. WCS1110- 25999RML Red.
4. WCS1110- 25997BML Blue.
5. WCS1110- 25635YML Yellow.
6. WCS1110- 25634NML Orange.

7. WCS10LF- 26145ZML Silver Metallic

