Sipiol® WL 2010-23 Coating

Technical Data Sheet

Sipiol® WL 2010-23 coating in combination with Sipiol WV 21 F curative creates a smooth, aqueous, two-component anti-friction coating designed specifically for off-line application during production of automotive sealing systems.

Addition of Sipiol WV 21 F curative is required and suitable for a lower temperature cure. For further information on Sipiol WV 21 F curative, refer to associated data sheet.

Features and Benefits:

Abrasion Resistant – provides excellent abrasion resistance against rotating textile.

Durable – provides excellent chemical resistance and high elasticity.

Low Coefficient of Friction – provides a low coefficient of friction.

Noise Reduction – reduces noise generated when surface is in contact with coated metals and glass.

Application:

Surface Preparation – Remove contaminants from surface. Prime substrate with either Sipiol WP 8555 or Cuvertin® X 8536 primer. Alternative surface preparation, such as plasma treatment, is recommended for improved adhesion to low polarity substrates.

Mixing – Thoroughly stir Sipiol WL 2010-23 coating prior to application using an electric stirrer at low speed. If a lower viscosity is required, dilute coating with deionized water, up to 30 parts of water to 100 parts of coating.

While continuously stirring the coating, slowly add Sipiol WV 21 F curative at a ratio of 100 parts coating to 3 parts curative, by weight. Before use, filter coating using a sieve with pore size of 200-400 µm.

If coating is spray applied, equip spray container with built-in stirrer to prevent sedimentation.

Applying – Apply mixed coating by brush or HVLP spray methods at temperatures above 10°C (50°F). Coating can be applied up to a maximum substrate temperature of 120°C (248°F).

For optimum performance, dry film thickness of coating should be 10-20 micron (0.4-0.8 mil).

Drying/Curing – Cure coating at 90-200°C (194-392°F), with dwell time depending on line speed and oven length. Typically, 15 minutes at 130°C (266°F) is sufficient.

Cleanup – Use water to clean up equipment.

Shelf Life/Storage:

Shelf life is one year from date of manufacture when stored properly by the recipient between 5°C and 30°C (41°F and 86°F) in original, unopened container. Temperature control measures are not required during transportation if freezing of the product is prevented. Keep container tightly sealed when not in use to prevent skinning. Do not store near direct heat sources.

Typical Properties*	
Appearance	Black Liquid
Viscosity, mPa·s / cps @ 25°C (77°F) Brookfield LVT Spindle 2, 30 rpm	400 - 600
Density @ 20°C (68°F) g/cm^3 (lb/gal)	 1.00 - 1.10 (8.3 - 9.2)
Solids Content by Weight, % 2.5 gram dried 30 minutes @ 130°C (266°F)	31 - 36

*Data is typical and not to be used for specification purposes.

Cautionary Information:

Before using this or any Parker LORD product, refer to the Safety Data Sheet (SDS) and label for safe use and handling instructions.

For industrial/commercial use only. Must be applied by trained personnel only. Not to be used in household applications. Not for consumer use.

Typical Properties of Coating Mixed with Required Curative*

	Sipiol WV 21 F
Mix Ratio by Weight, Coating to Curative	100:3
Solids Content by Weight, % 2.5 gram dried 30 minutes @ 130°C (266°F)	33 - 36
Working Time, hours @ 25°C (77°F)	8
Mixed Appearance	Black Liquid

*Data is typical and not to be used for specification purposes.

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