

Sipiol® WL 1025-21 Coating

Technical Data Sheet

Sipiol® WL 1025-21 coating is an aqueous, single-component, anti-friction coating designed for in-line application during production of automotive sealing systems. Sipiol WL 1025-21 coating is a high abrasion-resistant coating with a structured surface.

Features and Benefits:

Abrasion Resistant – provides excellent abrasion resistance against rotating textile and jeans test.

Durable – provides excellent chemical resistance and high elasticity.

Low Coefficient of Friction – provides a low coefficient of friction coating with improved glass drag properties and non-stick to glass.

Versatile – when used in combination with thickener, suitable for off-line application.

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 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 1025-21 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. If a higher viscosity is required, add up to 2% Sipiol TH1 additive. Before use, filter coating using a sieve with pore size of 250-400 µm.

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

Applying – Apply Sipiol WL 1025-21 coating by 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 Sipiol WL 1025-21 coating should be 10-30 micron (0.4-1.2 mil).

Drying/Curing – Cure coating at 130-200°C (266-392°F), with dwell time depending on line speed and oven length. Typically, 1-2 minutes at 180°C (356°F) surface temperature 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 product is prevented. Keep container tightly sealed when not in use to prevent skinning.

Typical Properties*	
Appearance	Black Liquid
Viscosity, mPa·s / cps @ 25°C (77°F) Brookfield LVT Spindle 1, 30 rpm	40 - 100
Solids Content by Weight, % 2.5 gram dried 30 minutes @ 130°C (266°F)	36.5 - 40.5

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



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