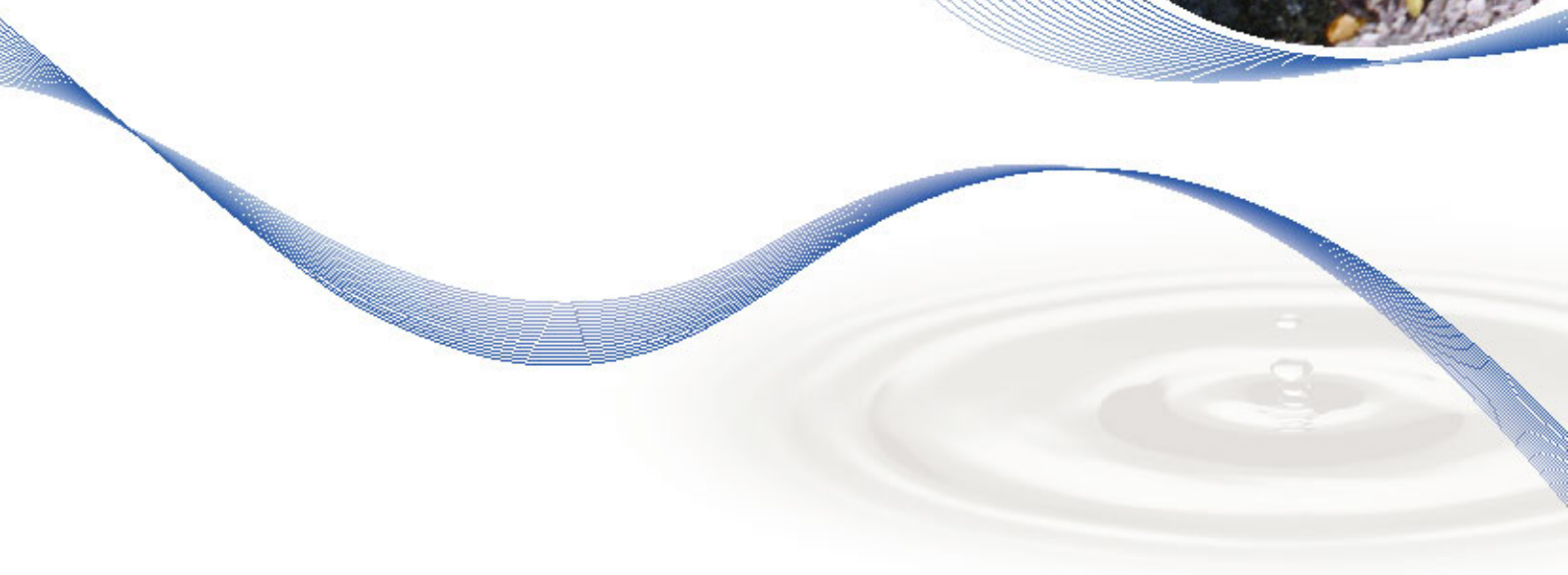


Lubrizol

WATER-BASED TEXTILE

COATINGS FOR
NONWovens

**Water-based
Textile Coatings**
Soft-sided Luggage
Series





Performax[®] Water-based Coating Technology

Making the Production More Healthy and Effective

Waterborne Solutions

Put a little more green in your bottom line.

In today's competitive textile manufacturing environment, most companies are seeking ways to run more efficiently. Using waterborne coatings instead of solvent-based materials is an option often overlooked by manufacturers, but one that can save significant costs in the long run.

Consider this - waterborne coatings from Lubrizol help provide:

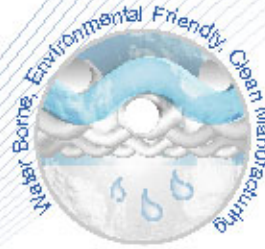
Improved environmental compliance by assisting companies in meeting requirements of VOC emissions.

The elimination of energy costs associated with incinerators needed to process solvent-based materials, which can run up to \$1,500 per day.

Decreased potential liability, maintenance and other expenses related to solvent-recovery systems.

Processing speeds that can match those of solvent-based coatings, without the added risk of fire or explosion associated with solvents.

Based on data from the USA, where VOC/HAP emissions are controlled.



Waterborne Coatings help meet VOC Emission standards

A Regulatory Comparison

HAP (Hazardous Air Pollutants)

VOC (Volatile Organic Content)

■ **45% solids**
Solvent based

■ **40% solids**
Waterborne

■ **55% VOC HAP**

■ **3% VOC HAP**

■ **1 Kg dry coating=1.2 kg HAP**

■ **1 Kg dry coating = .075 Kg HAP**

Performax[®]75122

High Abrasion Resistance Series

Physical Properties:

Solid	40%
Viscosity	20,000 cps (RVT6 @ 20 RPM)
pH	9.0
Flash Point	None
Density	8.6 lbs.
VOC%	<0.2%
Regulatory status	TSCA / DSL compliant
Appearance	white viscous liquid

Performance:

Abrasion resistance	
ASTM D 3884	film intact (CS-10 wheels, 1000g/1000cycles)
Hydrostatic head	
ISO 811	>600mm
Tensile strength	
ASTM D 1424	17.465(warp) 21.081(weft)(pound/inch $\times 10^{-3}$)
Handle	hard, adjustable
Glossy	adjustable

Depending on the substrate and add on, the above performance will be different



Performax[®] 75 125

High Hydrostatic Head Series

Physical Properties:

Solid	45%
Viscosity	20,000 cps (RVT5 @ 20 RPM)
pH	9.0
Flash Point	None
Density	6 lbs.
VOC%	<0.2%
Regulatory Status	TSCA / DSL compliant
Appearance	light grey viscosity liquid

Performance:

Abrasion Resistance	
ASTM D 3884	film intact (CS-10 wheels, 1000g/1000cycles)
Hydrostatic Head	
ISO 811	>1000mm
Tensile Strength	
ASTM D 1424	14.017(warp) 19.456(weft) (pound/inch $\times 10^{-3}$)
Handle	hard, adjustable
Glossy	adjustable

Depending on the substrate and add on, the above performance will be different

Performax[®]75126

Multi-functional Series

Physical Properties :

Solid	45%
Viscosity	12,000 cps (RVT5 @ 20 RPM)
pH	9.0
Flash Point	None
Density	6 lbs.
VOC%	<0.2%
Regulatory Status	TSCA / DSL compliant
Appearance	light grey viscous liquid

Performance :

Abrasion Resistance	
ASTM D 3884	film intact (CS-10 wheels, 1000g/1000cycles)
Hydrostatic Head	
ISO 811	>800mm
Tensile Strength	
ASTM D 1424	15.025(warp) 20.114(weft) (pound/inch $\times 10^{-3}$)
Handle	hard, adjustable
Glossy	adjustable

Depending on the substrate and add on, the above performance will be different

Performax[®] 75120A

Hight Glossy Series

Physical Properties:

Solid	48%
Viscosity	16,000 cps (RVT6 @ 20 RPM)
pH	9.5
Flash Point	None
Density	6 lbs.
VOC%	<0.2%
Regulatory Status	TSCA / DSL compliant
Appearance	white viscous liquid

Performance:

Abrasion Resistance	
ASTM D 3884	film intact (CS-10 wheels, 1000g/1000cycles)
Hydrostatic Head	
ISO 811	>600mm
Tensile Strength	
ASTM D 1424	17.465(warp) 21.081(weft) (pound/inch $\times 10^{-3}$)
Handle	hard, adjustable
Glossy	adjustable

Depending on the substrate and add on, the above performance will be different

Performax® Series Products

Comparison of Different System

	Solvent Based PU System	75122	75125	75126	75120A
Abrasion Resistance ASTM D3884 (CS-10, 1000g/ 1000 Cycles)	Film Intact	Film Intact	Film Intact	Film Intact	Film Intact
Hydrostatic Head mmISO 811	>600	>600	>1000	>800	>600
Tear Resistance ASTM D 1424	++	+	+	+	++
Bonding Strength ASTM D 4034	++	++	+	+	++
Peeling Resistance	++	+	+	+	++
Handle	+	++	++	++	+++
Glossy	+	++	++	++	+++





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