

# Permax™ 202

Aliphatic Polyether Waterborne Polyurethane Dispersion

PERFORMANCE COATINGS

## PRODUCT DESCRIPTION

Permax™ 202 is used in high performance coating applications where a hydrophilic polymer is needed for moisture vapor transmission, hydrophilic surface treatment, or excellent ionic compatibility is required. Permax™ formulas can be engineered to give controlled moisture vapor transmission rates, excellent washfastness and softness. Permax™ 202 is TSCA, EINECS, and DSL compliant. Permax™ 202 can be crosslinked with isocyanates, polyfunctional aziridines, melamine formaldehyde and carbodiimide cross linkers. Please contact your Lubrizol sales representative for more information on ready-to-run Lubrizol Permax™ coating compounds.

## FEATURES/BENEFITS

**Film Properties\*** - R.T. air dried and cured at 300°F (149°C) for 5 minutes, clear non-yellowing films

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Tensile Strength – (psi)	5,000
Ultimate Elongation (%)	750
100% Modulus (psi)	310
Softening Point	319°F (159°C)
Minimum Film Forming Temp MFFT	<0°C
Film swell % increase DM water – 1 hr	21%

### **Moisture vapor transmission rate testing\***

Coated Test Fabrics - #306A, Nylon 66, 1.85oz/sq.yd.(~62 gsm)

Permax™ formulated coating, ~ 1.0 oz./sq.yd. 33 gsm., Base coat / Top Coat dried / cured 100°C/150°C

70°F (21°C) and 50% RH

Upright Water Cup	ASTM E-96 B	500 g/m <sup>2</sup> -day
Inverted Water Cup	ASTM E-96 BW	4,500 g/m <sup>2</sup> -day

## PHYSICAL CHARACTERISTICS\*

Solids (%)	41
Viscosity (cps)	1000
pH	5.4
Weight/Gallon (lbs/gallon)	8.6
Surface Tension (dynes/cm)	55
Freeze/Thaw	Pass
Dispersion Appearance	Opaque - White
Particle Charge	Nonionic
Flash point	None
VOC (%)	<0.1

\*Typical physical properties not to be considered specifications

## RECOMMENDED RE-TEST DATE/STORAGE

Lubrizol recommends retesting the quality 1 year after the date of manufacture. Store unopened containers indoors at temperatures between 45° & 95° F.

## REGULATORY STATUS

Please see the product's current safety data sheet, SDS, for regulatory information. You can request an SDS at [www.lubrizolcoatings.com](http://www.lubrizolcoatings.com).

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