

Permax™ 232

Aliphatic Polyether Waterborne Polyurethane Dispersion

PERFORMANCE COATINGS

PRODUCT DESCRIPTION

Permax™ 232 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™ 232 is TSCA, EINECS, and DSL compliant. Permax™ 232 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)	1,300
Ultimate Elongation (%)	650
100% Modulus (psi)	160
Softening Point	319°F (159°C)
Minimum Film Forming Temp MFFT	<0°C
Film swell % increase DM water – 1 hr	63%

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	800 g/m ² -day
Inverted Water Cup	ASTM E-96 BW	8,000 g/m ² -day

PHYSICAL CHARACTERISTICS*

Solids (%)	35
Viscosity (cps)	750
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.

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