



PRODUCT DATA SHEET

QW4018-1

URETHANE; POLYURETHANE: WATER-BASED ALIPHATIC POLYESTER DISPERSION.

NMP, TEA, and APEO Free, low VOC

DESCRIPTION

QW4018-1 is an aliphatic waterbase polyurethane resin that does not contain NMP (N-methyl pyrrolidone), TEA (Triethylamine), APEO, and provides very low VOC. QW4018-1 provides solvent resistance and good physical properties without the use of typical crosslinkers. QW4018-1 is a single component low VOC product offering improved chemical and abrasion resistance over traditional polyurethane dispersions. QW4018-1's extreme toughness allows formulators to develop high performance coatings and adhesives for the most demanding applications. QW4018-1's formulation compatibility with a variety of acrylics make it an excellent base resin or modifying resin.

APPLICATION

- Floor Coatings
- Wood Floors and Furniture
- Additive for adhesion promotion
- Flexible films, polyester & vinyl, auto interiors

STORAGE AND HANDLING

Store between 55 to 95°F. Consult Safety Data Sheet prior to working with this material.

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CLEAN UP

Soap and water. All applicators and utensils must be thoroughly cleaned prior to use. For further information, refer to the Safety Data Sheet.

WARNING: Refer to the Safety Data Sheet

TECHNICAL INFORMATION

% Solids	34-38
Viscosity, cps @ 25°C	0 - 250
pH	7.0 – 8.5
VOC (g/L)	176

TYPICAL PROPERTIES

Hardness (Sward, 1 week)	25
Tensile Strength psi	3000
Elongation%	300

TEST METHODS (ASTM METHOD)

% Solids - D-2369	Hardness - D-2134	Viscosity - D-2196
Appearance - E-284	Tensile - D-412	pH - E-70
VOC Properties D-3960	Elongation - D-412	Abrasion - D-4060
Weight/Gallon - D-1475		

Instron Tensile Tester; films pulled at 2 in/min, 1week RT dry.

FORMULATING TIPS

QW4018-1 may require additional co-solvent for excellent film formation and is compatible with other Chase QW resins and a variety of acrylic emulsion resins. QW4018-1 can be crosslinked with carbodiimides, and aziridines