



## PRODUCT DATA SHEET

### QW2618N

URETHANE; POLYURETHANE: WATER-BASED ALIPHATIC POLYESTER DISPERSION.

**NMP, TEA, and APEO Free, low VOC**

### DESCRIPTION

QW2618N is an aliphatic waterbase polyurethane resin that does not contain NMP (N-methyl pyrrolidone), TEA (Triethylamine), APEO Free, and provides very low VOC. QW2618N is a one component aliphatic polyurethane dispersion featuring excellent hardness with a high degree of chemical and water resistance. The combination of high solids and low VOC makes this a good choice for coatings that require quick tack resistance and a hard chemical-resistant finish. The aliphatic backbone makes this polymer an excellent choice for exterior applications where UV resistance is important. Low viscosity makes for excellent coating rheology. The combination of properties makes this dispersion an excellent choice for blending with our other dispersions or waterborne acrylics.

### APPLICATION

- Textile Coatings
- Heat reactivated adhesives
- 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.

### 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	32-37
Viscosity, cps @25°C	25 - 500
Specific Gravity @ 25°C	1.05 ± .04
Wt./Gallon	8.80 lbs. ± .10
pH	7.75 ± 0.75
VOC Grams/Liter	162

#### TYPICAL PROPERTIES

Hardness (Sward, 1 week)	35
Tensile Strength <sup>1</sup> , psi	3500
Elongation <sup>1</sup> , %	100

### 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		

<sup>1</sup>Instron Tensile Tester; films pulled at 2 in. /min, 1week.

### FORMULATING TIPS

QW2618N forms a high gloss, crack-free film at room temperature without further addition of organic solvents or additives. It is generally compatible with our other QW resin series or a variety of acrylic resin emulsions. QW2618N may be further crosslinked with aziridine or carbodiimide.

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