



PRODUCT INFORMATION

Product Name: QW40

Last Updated: April 8, 2015

PRODUCT

QW40: Urethane; Polyurethane: Waterbase Aliphatic Polyester Dispersion

DESCRIPTION

QW40 is a translucent aliphatic waterbased urethane resin. **QW40** provides solvent resistance and good physical properties without the use of typical crosslinkers. **QW40** is a single component low VOC product which offers better chemical and abrasion resistance than traditional polyurethane dispersions. **QW40's** extreme toughness allows formulators to develop high performance coatings and adhesives for the most demanding applications. **QW40's** high solids and formulation compatibility with a variety of acrylics make it an excellent base resin or modifying resin.

APPLICATIONS

- Exceptional Depth of Image on wood floors
- 40% solids
- Low VOC
- Excellent tensile strength and elongation
- Intermediate in hardness
- Excellent long term stability

TECHNICAL INFORMATION

% Solids	39-41
Viscosity, cps @ 25°C	25 - 250
pH	7.0 – 8.5
VOC (lb./gal.)	1.61 +/- 0.05
VOC (g/L)	192 +/- 8

TYPICAL PROPERTIES

Hardness (Sward, 1 week)	25
Tensile Strength ²	7300 psi
Elongation ²	360%
Taber Abrasion, CS10 Wheel ¹	8 mg lost

TEST METHODS (ASTM Method)

% Solids - D-2369	Hardness - D-2134
Viscosity - D-2196	Abrasion - D-4060
Appearance - E-284	pH - E-70
Tensile - D-412	Elongation - D-412

¹ Taber Abrasion Weight Loss; 1000g load / 1000 cycles

² Instron Tensile Tester; films pulled at 2 in. /min.

FORMULATING TIPS

QW40 may require additional co-solvent for excellent film formation and is compatible with other Chase QW resins and a variety of acrylic emulsion resins. **QW40** can be crosslinked with XL29SE (UCC) or aziridines.

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

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