



PRODUCT DATA SHEET

SF27

URETHANE; POLYURETHANE: SOLVENT-FREE,
WATER-BASED ALIPHATIC POLYESTER DISPERSION

NMP and APEO Free.

DESCRIPTION

SF27 is an aliphatic water based, polyurethane resin that contains no solvent, does not contain NMP (N-methyl pyrrolidone), or APEO. SF27 provides solvent resistance and good physical properties without the use of typical crosslinkers. SF27's formulation compatibility with a variety of acrylics make it an excellent base resin or modifying resin. It is a single component resin that will require additives to form a good film

APPLICATIONS

- Flexible films, polyester & vinyl, auto interiors
- Wood Coatings
- Concrete Coatings
- Metal Coatings
- Base Polymer for OEM Paint
- Exterior Paint

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

TECHNICAL INFORMATION

% Solids	34-36%
¹ Viscosity, cps @ 25°C	25 - 400
Specific Gravity	1.06 ± 0.01
Wt./Gallon	8.75 lbs. ± .2
pH	7.0 - 8.5
VOC (g/L)	< 50 g/L
Hardness (Sward, 1 week, RT)	27
Tensile Strength ²	3000
Elongation ²	100

¹Viscosity measured using a Brookfield LV

²Instron tester; films pulled at 20 inches per minute, 1-week RT dry

TEST METHODS (ASTM METHOD)

% Solids: D-2369 Hardness: D-2134 Viscosity: D-2196
Tensile: D-412 Elongation: D-412 Appearance: E-284
pH: E-70 VOC: D-3960

FORMULATING TIPS

SF27 will require additional co-solvent for excellent film formation and is compatible with other Chase QW resins and a variety of acrylic emulsion resins. SF27 can be crosslinked with carbodiimides and aziridines