



PRODUCT INFORMATION

Product Name: SF18

PRODUCT

SF18

Urethane; Polyurethane; Solvent Free Waterbased Aliphatic Polyester Dispersion

DESCRIPTION

SF18 is a translucent aliphatic waterbased urethane resin that contains no solvent and has good physical properties without the use of crosslinkers. **SF18** is a single component that must be coalesced with solvents, resins, or additives to form a good film. **SF18** provides improved chemical and abrasion resistance.

APPLICATIONS

- Wood Coatings
- Concrete Coatings
- Metal Coatings
- Base Polymer for OEM Paint
- Exterior Paint

TECHNICAL INFORMATION

- | | |
|-------------------------|----------------|
| • % Solids | 34-36% |
| • Viscosity, cps @ 25°C | 25 - 400 |
| • Specific Gravity | 1.06 ± 0.01 |
| • Wt./Gallon | 8.75 lbs. ± .2 |
| • pH | 7.75 ± 0.75 |
| • VOC (g/L) | < 50 g/l |

TYPICAL PROPERTIES

- | | |
|---------------------------------|------|
| • CS10 Wheel ¹ | 10mg |
| • Hardness (Sward, 1 week) | 25 |
| • Tensile Strength ² | 3500 |
| • Elongation ² | 200% |

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	VOC Properties - D-3960
Weight/Gallon - D-1475		

Viscosity measured using a Brookfield LVF, #1 spindle

¹Taber Abrasion Weight Loss 1000 gram load/1000 cycles

²Instron tester; films pulled at 2 inches per minute

FORMULATING TIPS

SF18 does not film form at room temperature. **SF18** may be further crosslinked with carbodimide or aziridine. **SF18** is generally compatible with Chase QW resin series or a variety of acrylic resin emulsions.

STORAGE AND HANDLING

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

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