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## Hauthane HD-2117

**DESCRIPTION:** An extremely hard, aliphatic, polyester-based, aqueous polyurethane dispersion with exceptional chemical and early water-resistance properties.

**SUGGESTED USES:** **HD-2117** was designed for topcoat applications on a wide variety of substrates, including concrete, metal, plastic and wood. HD-2117 produces films with exceptional adhesion to aluminum, excellent leveling properties and high levels of chemical resistance.

**CHARACTERISTICS:**

- Outstanding water and chemical resistance
- Fast early water resistance development
- Can be crosslinked to enhance performance
- Dilution and clean-up with ordinary tap water
- Contains n-methyl pyrrolidone (NMP) co-solvent

**APPLICATION:** **HD-2117** can be used as a sole vehicle or blended with acrylic emulsions for spray or rotogravure applications. Rheology modifications can be made with associative thickeners for alternative application methods.

**DRYING:** **HD-2117** may be dried at ambient temperatures with supplemental co-solvent addition of 5% DPM or DPnB on total formulation weight. Typical oven drying temperatures and dwell times for aqueous coatings are sufficient to produce optimal film properties without additional co-solvent.

### PHYSICAL PROPERTIES

<b>SOLIDS</b>	35% ( $\pm 1\%$ )
<b>VISCOSITY</b>	50-150 cps
<b>pH</b>	8.5-10.0
<b>DENSITY</b>	8.7 lbs/gal
<b>SOFTENING POINT</b>	350°F
<b>VOC CONTENT</b>	134 gm/l (as supplied)

### TENSILE PROPERTIES

(TESTED AT 2 INCHES/MINUTE)	
<b>ELONGATION</b>	50%
<b>TENSILE STRENGTH</b>	>4850 psi
<b>100% MODULUS</b>	NA
<b>200% MODULUS</b>	NA
<b>300% MODULUS</b>	NA

