

**DESCRIPTION:****SUGGESTED USES:**

Solvent-free, soft, fire retardant, aliphatic, water-borne urethane dispersion.

**HD-2313** was designed for use as a coating or finish for synthetic textile fabrics that must have permanent fire retardancy. This unique urethane dispersion is manufactured at high solids and without the use of solvent. Low add-on levels of **HD-2313** will enable synthetic fabrics to pass various FR tests including NFPA-701, MVSS-302, & others. **HD-2313** is well suited for use in textile coatings, such as automotive upholstery, that require outstanding strength and fire retardancy without the use of antimony-oxide/decabrome chemistry. Using **HD-2313**, a coating can be formulated to pass MVSS-302 and maintain required strength properties at a much lower coating weight than conventional coatings. This results in a much softer hand and possible cost savings. The high solids and solvent-free nature of **HD-2313** make it a very cost effective urethane.

**CHARACTERISTICS:**

Solvent-free and high solids.  
Permanent, non-leaching fire retardancy.  
Excellent cost/performance ratio.  
Soft, tough, flexible, dry film.  
Excellent UV Resistance.  
Excellent low temperature flex crack resistance.  
Very good abrasion resistance.

**APPLICATION:**

Spray or pad -- solids may be adjusted for optimum add-on.  
May be thickened with **HA-921** for knife coating.

**CURING:**

Excellent strength properties as supplied.  
Melamine-formaldehyde (3 - 6 phr) provides improved performance.

<u>PHYSICAL PROPERTIES</u>		<u>TENSILE PROPERTIES</u>	
<b>SOLIDS:</b>	45.0%(+/- 1%)	(Tested at 20 inches/minute)	
<b>VISCOSITY:</b>	50-500 cps	<b>ELONGATION:</b>	560%
<b>PH:</b>	6.5-9.5	<b>ULT. TENS. STR.</b>	3500 PSI
<b>DENSITY:</b>	8.8 lb/gal	<b>100% MODULUS:</b>	560 PSI
<b>MELT POINT:</b>	320 F	<b>200% MODULUS:</b>	720 PSI
<b>V.O.C. CONTENT:</b>	0.8%	<b>300% MODULUS:</b>	880 PSI

**SPECIAL NOTE:**

Mix well before removing product from containers. Container lids must be re-sealed tightly with the plastic header film after each use.

**STORAGE STABILITY:** The product must be stored in a controlled environment between 5 – 40°C and protected from direct exposure to sunlight. Shelf-life is 1 year from manufacture date (see lot # for date).

*This information is believed to be accurate but is not guaranteed and we assume no legal responsibility for its accuracy. User should test the product to determine its suitability for their particular purpose. Nothing presented here is to be construed as a recommendation or inducement to use our product. We shall not be liable for any claims for damages, whether based on contract, negligence, and strict liability in tort or otherwise. Our products are sold without any implied warranty of merchantability or fitness for a particular purpose.*

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