

Hauthane HD-2313

DESCRIPTION: A co-solvent free, flame retardant, aliphatic, aqueous polyurethane dispersion.

SUGGESTED USES: **HD-2313** was designed for use as a coating or finish for synthetic textile fabrics that must have permanent flame 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:

- < Permanent, non-leaching flame retardancy
- < Contains no co-solvent
- < Excellent cost/performance ratio
- < Soft, tough, flexible, dry film
- < Excellent low temperature flex crack resistance

APPLICATION: **HD-2313** may be sprayed or pad applied as supplied. It may be thickened for alternative application methods.

CURING: This product displays excellent strength properties as supplied, although melamine-formaldehyde (3-6 phr) may be added to enhance performance.

PHYSICAL PROPERTIES

SOLIDS	45% (+/- 1%)
VISCOSITY	50-500 cps*
pH	6.5-9.5
DENSITY	8.8 lbs/gal
SOFTENING POINT	320EF
VOC CONTENT	0.8% by wt

TENSILE PROPERTIES

(TESTED AT 20 INCHES/MINUTE)	
ELONGATION	560%
TENSILE STRENGTH	>3500 psi
100% MODULUS	560 psi
200% MODULUS	720 psi
300% MODULUS	880