

**C. L. Hauthaway & Sons Corporation**  
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## Hauthane HD-2303

- DESCRIPTION:** Soft, fire retardant, aliphatic, low VOC, water-borne urethane dispersion.
- SUGGESTED USES:** HD-2303 was designed for use as a coating or finish for synthetic textile fabrics that must have permanent flame retardancy. Low add-on levels of HD-2303 will enable synthetic fabrics to pass various FR tests including NFPA-701, MVSS-302, & others. HD-2303 is well suited for use in textile coatings, such as automotive upholstery, that require outstanding strength and flame retardancy without the use of antimony-oxide/decabrome chemistry. Using HD-2303, 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. Due to its aliphatic composition, excellent UV resistance is also exhibited.
- CHARACTERISTICS:** Permanent, non-leaching flame retardancy  
Low VOC  
Excellent cost/performance ratio  
Soft, tough, flexible, dry film  
Excellent UV Resistance  
Excellent low temperature flexibility  
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.

### PHYSICAL PROPERTIES

Solids	35.0%
Viscosity	50-500 cps
pH	6.5-9.5
Density	8.8 lbs/gal
Softening Point	280°F
VOC Content (as supplied)	40 g/l

### TENSILE PROPERTIES

(Tested at 20 inches/minute)	
Elongation	540%
Ult. Tensile Strength	3,600 psi
100% Modulus	780 psi
200% Modulus	940 psi
300% Modulus	1,200 psi