

- DESCRIPTION :** A branched, lightfast, Solvent-free, medium soft, polyether based aqueous urethane dispersion.
- SUGGESTED USES:** **HD-2015** was designed for a variety of coating and adhesive applications where the chemical and thermal resistance of a crosslinked system are required, but the use of a multiple component system is neither feasible nor desirable. **HD-2015** was designed for use in textile applications where improved strength properties and a non-yellowing appearance are needed. This versatile urethane provides the added benefit of being solvent-free. **HD-2015** is an excellent choice for use as an anti-fray finish, strength additive, and general use urethane. Due to its aliphatic composition, excellent UV resistance is also exhibited.
- CHARACTERISTICS:** Co-solvent free
Medium soft firm and tough film, flexible, dry film
Polymer branching improves film resistance properties
Dries to clear, glossy, non-discoloring film
Dilution and cleanup of wet material with water
Excellent cost/performance ratio.
Excellent UV Resistance.
Excellent low temperature flex crack resistance.
Very good abrasion resistance.
Branching for improved crosslinking.
- APPLICATION:** **HD-2015** can be used by spray or rotogravure as supplied. It can be thickened with appropriate thickeners for knife-over-roll or similar methods. Spray or pad -- solids may be adjusted for optimum add-on. May be thickened with HA-921 for knife coating.
- DRYING :** **HD-2015** can be air dried, if desired, depending on film thickness. In normal oven drying situations flash for 1 minute at 200 F, followed by 1 minute at 250 - 300F, if possible.
- CURING:** Excellent strength properties as supplied. Melamine-formaldehyde (3 - 6 phr) provides improved performance.

PHYSICAL PROPERTIES

SOLIDS:	35%(+/- 1%)
VISCOSITY:	30-150 cps
pH:	7.0-8.5
DENSITY:	8.6 lb/gal
SOFTENING POINT:	325 F
V.O.C. CONTENT:	0.13 lbs/gal (As supplied)

TENSILE PROPERTIES

(Tested at 20 inches/minute)	
ELONGATION:	440%
ULT. TENS. STR.	4500 PSI
100% MODULUS:	1550 PSI
200% MODULUS:	2150 PSI
300% MODULUS:	2900 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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