

C. L. Hauthaway & Sons Corporation
638 Summer Street Lynn, MA 01905-2092

781 592-6444
www.hauthaway.com

Bondthane™ UD-420

DESCRIPTION: Bondthane UD-420 is a soft, VOC Free aliphatic/polyether waterborne polyurethane. UD-420 produces a soft hydrophilic film suitable for applications where good moisture vapor transmission properties or a hydrophilic coating is desired. Unlike most waterborne polyurethanes, this polymer is stable over a wide pH range and is potentially compatible with both anionic and cationic additives and resins.

SUGGESTED APPLICATIONS: The unique properties of this polyurethane make it suitable for many specialty applications and coating that can benefit from the pH stability, ionic stability, or the unique hydrophilic nature of the final film. Textile coatings in particular can benefit from the good moisture vapor transmission (MVT) properties of the film. UD-420 can be used as the sole film former or in conjunction with other resins to improve MVT properties. In addition, the ZERO VOC level of this polymer makes it possible to make an exceptionally “green” finished product.

TYPICAL PHYSICAL PROPERTIES:	Solvent %:	0%	Acid #:	N/A
	Solids (by weight):	40%	VOC (g/L less water):	0
	Solids (by volume):	37.6%	Particle Charge:	nonionic
	pH (@ 25 C):	5.0 – 7.0	König Hardness:	27 s
	Viscosity (@ 25 C):	<500 cps.	Tensile Strength:	1200 psi
	Weight/gallon:	8.7 lbs/gal.	100% Modulus:	500 psi
	Specific Gravity	1.04	% Elongation:	370%

*These values signify typical physical properties for comparative purposes only and are not intended as a specification.

CROSSLINKING: This product may be crosslinked with a variety of chemistries that can result in even better resistance properties. In almost all cases, crosslinking will result in either a two-component system or a system that will require heat activation. Ask your technical representative to explain crosslinking options and levels.

SAFETY & HANDLING: This product is waterborne but is intended for use by qualified professionals. As with all industrial products, please consult the Material Safety Data Sheet prior to use. Protect from Freezing.

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The information presented in this Technical Data Bulletin is intended to convey the best available data on this compound to facilitate its safe handling and to stimulate interest in its use. The uses referred to are listed for purposes of illustration only, and it is recommended that sufficient investigation be carried on to establish the suitability of their application in any particular use. No guaranty or warranty is implied or intended as to the suitability of any chemical compound for any particular use. Nothing herein is to be construed as advising or authorizing practice of any invention covered by existing patents without license from the owners thereof.