



**UROTUF<sup>®</sup>**

WATER-BORNE URETHANES

**REICHHOLD**

# TRANSFORM YOUR COATING PERFORMANCE WITH **UROTUF**<sup>®</sup>

For more than 35 years, Reichhold has been a leading supplier of innovative water-borne urethanes to the coatings industry. These high quality UROTUF<sup>®</sup> resins include self crosslinking and thermoplastic polyurethane dispersions (PUD) designed for demanding coatings applications. Not only does our broad range of PUD's offer the toughness and durability you expect from the robust UROTUF<sup>®</sup> line of resins, but they also possess the versatility you need for application to a wide array of substrates. When toughness counts, you can count on UROTUF<sup>®</sup>.

UROTUF<sup>®</sup> F-series self crosslinking polyurethane dispersions are used in one component highly durable clear finishes for wood surfaces, including performance driven flooring applications. These products enhance the natural beauty of wood with a warm amber tone in a finish that is not only resilient, but aesthetically unsurpassed. They are also made from renewable resources.

UROTUF<sup>®</sup> L-series thermoplastic polyurethane dispersions are used in one and two component coating systems that exhibit excellent resistance properties and toughness. Reichhold offers an extensive range of products with film properties ranging from hard and rigid to soft and flexible that are used to formulate coatings for wood, metal, concrete, plastics and leather.

## ADVANTAGES

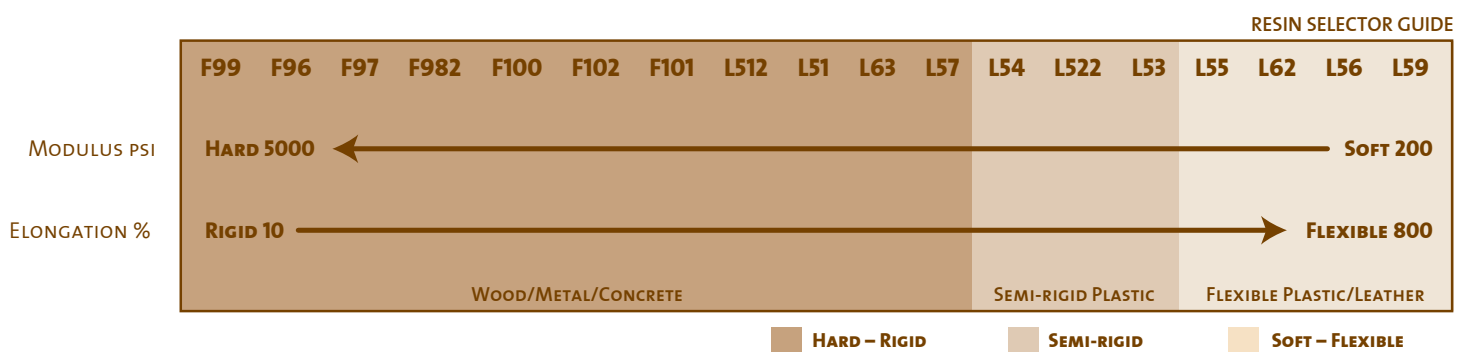
- Classic urethane performance
- Exceptional abrasion resistance
- Excellent chemical & solvent resistance
- Low VOC capability
- Fast drying
- Amber to water white films
- Wide range of flexibility
- Non-flammable
- Water cleanup

## APPLICATIONS

- Commercial & residential wood flooring
- Wood care
- Metal
- Concrete
- Semi-rigid & flexible plastic
- Leather & rubber
- Textiles
- Glass fiber sizing
- Graphic arts

## UROTUF<sup>®</sup> RESIN SELECTOR FOR VARIOUS SUBSTRATES

The table below shows where the series of UROTUF<sup>®</sup> water-borne urethanes reside along the continuum of hard and rigid to soft and flexible properties. This will help aid in the selection of the appropriate product group based on the substrate to be coated. The application examples are representative but not meant to be exclusive. A soft flexible PUD could be used to modify a coating for rigid substrates.



# UROTUF® PRODUCT LINE

## SELF-CROSSLINKING POLYURETHANE DISPERSIONS

PRODUCT	PRODUCT CODE	% SOLIDS	COSOLVENT	VOC (g/L)	OIL TYPE	% BIOBASED CONTENT	KEY FEATURES
UROTUF® F96-MPW-32	91210	32	NMP	181	LINSEED	35	AMBER FILM, EXCELLENT CHEMICAL & SOLVENT RESISTANCE
UROTUF® F97-MPW-33	91293	33	NMP	178	PROPRIETARY	39	LESS AMBER FILM, HIGH MAR & CHEMICAL RESISTANCE
UROTUF® F982-MPW-33	91875	33	NMP	178	PROPRIETARY	39	IRON CATALYZED VERSION OF UROTUF® F97-MPW-33
UROTUF® F99-MPW-36	91786	36	NMP	117	PROPRIETARY	25	HYBRID, HIGH FILM HARDNESS
UROTUF® F100-W-36	91795	36	NONE	41	PROPRIETARY	46	SOLVENT FREE VERSION OF UROTUF® F97-MPW-33
UROTUF® F101-MPW-45	91856	45	NMP	137	SOYBEAN	40	HIGH SOLIDS, LOW VOC, HIGH DURABILITY
UROTUF® F102-W-36	91882	36	NONE	46	PROPRIETARY	45	IRON CATALYZED VERSION OF UROTUF® F100-W-36

NMP = N-methyl pyrrolidone

## THERMOPLASTIC POLYURETHANE DISPERSIONS

PRODUCT	PRODUCT CODE	% SOLIDS	COSOLVENT	VOC (g/L)	MODULUS @ 100%, PSI	ELONGATION %	KEY FEATURES
UROTUF® L51	15180	30	NMP	379	4000	150	EXCELLENT HARDNESS & SUPERIOR ABRASION RESISTANCE
UROTUF® L51-35	15186	35	NMP	384	4900	100	HIGHER SOLIDS VERSION OF UROTUF® L51
UROTUF® L512	90230	30	NMP	384	7000	100	SUPERIOR CHEMICAL RESISTANCE, EXCELLENT HEAT COLOR STABILITY
UROTUF® L512-G8W-30	91895	30	DPDME	375	7000	100	NMP FREE VERSION OF UROTUF® L512
UROTUF® L522-MPW-40	91321	40	NMP	147	1250	400	MODERATE FILM HARDNESS, GOOD UV RESISTANCE
UROTUF® L522-G8W-40	91864	40	DPDME	201	1250	400	NMP FREE VERSION OF UROTUF® L522-MPW-40
UROTUF® L522-W-40	90267	40	NONE	35	1250	400	SOLVENT FREE VERSION OF UROTUF® L522-MPW-40
UROTUF® L53-MPW-30	91152	30	NMP	330	1100	410	HIGHLY FLEXIBLE FILMS, EXCELLENT ABRASION RESISTANCE
UROTUF® L54-MPW-32	91135	32	NMP	390	3000	300	HIGH ACID CONTENT FOR CROSSLINKING
UROTUF® L55	15185	35	NMP	243	500	660	SOFT, HIGHLY FLEXIBLE FILMS, EXCELLENT HYDROLYTIC STABILITY
UROTUF® L56-MPW-36	91151	36	NMP	273	350	700	VERY SOFT, HIGHLY FLEXIBLE FILMS, EXCELLENT HYDROLYTIC STABILITY
UROTUF® L56-W-38	91905	38	NONE	32	350	700	SOLVENT FREE VERSION OF UROTUF® L56-MPW-36
UROTUF® L57-MPW-35	91327	35	NMP	241	4000	220	HAPS FREE, HIGH FILM HARDNESS, GOOD ABRASION RESISTANCE
UROTUF® L59-40	91506	40	NMP	197	500	810	SOFT, HIGHLY FLEXIBLE FILMS, BLENDING RESIN TO IMPROVE FLEXIBILITY
UROTUF® L62-G8W-40	91732	40	DPDME	174	650	500	OH FUNCTIONAL, VERY LOW GLOSS, HIGHLY FLEXIBLE FILMS
UROTUF® L63-MPW-38	91794	38	NMP	248	4500	200	HIGH SOLIDS, HIGH FILM HARDNESS, HIGH GLOSS
UROTUF® L63-W-38	91901	38	NONE	43	4500	200	SOLVENT FREE VERSION OF UROTUF® L63-MPW-38

NMP = N-methyl pyrrolidone    DPDME = dipropylene glycol dimethyl ether

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For more information on Reichhold's complete line of UROTUF® products contact your Reichhold sales representative or call the Coatings Technical Support Line at (800) 431-1920.

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