





Technical Data Sheet





Product Name	<i>UreGuard</i> Acrylic Aliphatic Urethane
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Issue date	06/28/2007
Product code	3000

Product Description & Function
<p>UreGuard is a High Solids, VOC Compliant 2 Part high gloss Acrylic Aliphatic Urethane designed for industrial environments. UreGuard Acrylic Urethane gives outstanding adhesion, water and chemical resistance combined with excellent gloss and color retention. It is formulated for excellent abrasion, impact and scratch resistance. UreGuard Acrylic Urethane can be used as a finish coat over properly prepared and primed surfaces requiring a high performance industrial, marine or chemical resistance finish.</p>

Substrates & Preparation
 <p>All surfaces should be clean, dry and free from dirt, dust, grease, oil, and rust. Metal substrates should be primed with MarkGuard Epoxy Primer Aged OEM/2 part finishes- Sand with 180-320 grit sand paper or lightly sandblast.</p>

Cleaning
 <p>All previously coated surfaces should be cleaned prior to application of UreGuard Acrylic Urethane with MT&R's Degreasing Cleaner.</p>

Application				
		HVLP	Conventional Air	Airless/ Air Assisted
	Mixing Ratio by Volume			
	501-A Base	4 Part	4 Part	4 Part
	501-B Hardener	1 Part	1 Part	1 Part
	Thinner	Not generally required	Not generally required	Not required
	Spray Viscosity	#3 Zahn: 15-20 Sec.	#3 Zahn: 15-20 Sec.	#3 Zahn: 15-20 Sec.
	Gun Set Up	.040 tip 10-15 psi fluid pressure 55-65 psi air pressure	.040 tip 10-15 psi fluid pressure 60-70 psi air pressure	.011-.013 tip 1600 to 2000 psi
	Application Rate	4 -6 mils WFT	4 -6 mils WFT	4 -6 mils WFT
	Dry Time	Tack Free 1 hour @ 25c Through dry 5-6 hours @ 25 c		
	Pot Life	2 hours @ 25c		
	Film Build	Minimum 100 microns WFT (4 mils) 50 microns DFT (2 mils)		
	Re-coating	Between 8 to 12 hours at 25c After 48 hours light sanding is recommended		
	VOC (Ready for Use)	3.0 lbs/gal, 359 g/l (As applied)		

Thinner Options		
T-80 Thinner	Slow	T-80 Thinner can be used to extend the wet edge properties of UreGuard Urethane.

Hardener Option	
UreGuard -B Hardener	UreGuard -B Hardener is the only option available for UreGuard -A Acrylic Urethane.

Technical Information	
% Non-Volatile by Weight	70.0%
% Non-Volatile by Volume	55.3%
Flashpoint	-4 F
Storage	12 Months in Original sealed container
Equipment Cleaning	Standard Cleaning Thinner
Coverage	444 square feet per gallon at 2 mils dry (Theoretical with no loss)
VOC (mixed)	3.0 lbs/gal, 359 g/l
Gloss @ 60°	90+

Special Properties
Outstanding adhesion / chemical resistance / corrosion resistance / impact resistance.
Good adhesion to difficult substrates.
Ideal for use over MarkGuard Epoxy Primer
UreGuard Acrylic Urethane should not be applied in temperatures below 45 F (7 C)

Health & Safety
Refer to "Material Safety Data Sheet" and can / pail labels prior to use.
Wear suitable respiratory equipment.

PLEASE CONSULT THE MATERIAL SAFETY DATA SHEETS FOR SAFE HANDLING INSTRUCTIONS

To the best of our knowledge, the information contained on this page(s) is accurate, but no guarantee is given; expressed or implied. This is due to the great variations possible in applicator techniques, surface preparation, storage conditions, and individual job conditions. Many of MT&R's products contain reactive chemicals. Therefore care should be taken in using them. With the exception of the waterborne products, all products should be treated as flammable materials and kept away from open flames. Mark Tool & Rubber Co, Inc. assumes no responsibility for accidents or injuries resulting from product use. Liability, if any is limited to replacement of the product.
