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CONDUCTIVE URACHEM

GENERAL INFORMATION	PHYSICAL PROPERTIES	APPLICATION
A two component polyurethane enamel	Physical and chemical tests were	Use conventional air pressurized spray
suitable for use on a variety of substrates	performed on iron phosphate treated steel	equipment or HVLP.
that require superior appearance and	panels. All panels were cured for 72 hours	
durability. Conductive Urachem has	at 140°F and then air dried for 14 days.	Surface Preparation:
excellent solvent resistance and chemical	Adhesion tests were performed on the	Conductive Urachem can be applied
resistance. Conductive Urachem is	appropriate substrates.	directly to chemically treated steel. Use
recommended for both metal and plastic		W6583 WB Wash Primer on Yellow/Clear
substrates used in the electronic enclosure and medical and office equipment	1. Volume Solids:	Zinc Plate or any chromated aluminum if aged longer than 24 hours. Wash Primer
manufacturing industries. <i>Conductive</i>	40-45% (varies by color)	2035-534 or R1953 Tu-Com Chromate
Urachem is designed to dry and cure at	2. Pencil Hardness:	Primer must be applied if no chemical
ambient temperature so it is an excellent	2. I chen Hardness. 2H	pretreatment is available. Structural
choice for pre-assembled parts that are too		plastics such as ABS (CYCOLAC TM),
large for baking ovens or for parts that	3. Cross Hatch Adhesion:	Polycarbonate (LEXAN TM) and PPO
cannot tolerate the heat.	5B	(NORYL TM) that have been injected,
<i>Conductive Urachem</i> will cure at ambient		foamed, or thermoformed should be clean
temperature or by force drying $20 - 30$	4. Taber Abrasion (1000 grams;	and free from mold release. Wash with
minutes at 125° - 180°F.	1000 cycles; CS10 wheel):	isopropyl alcohol or other mild wash solution.
<i>Conductive Urachem</i> can be textured or	< 100 mg loss	solution.
applied as a smooth coat.	5. Flexibility:	Mixing:
	Pass 1/8" Mandrel	<i>Conductive Urachem</i> is a two component
<i>Conductive Urachem</i> is custom color		polyurethane. Urachem R500 is the
matched and formulated to meet each	6. Theoretical Coverage @ 1 mil dft:	recommended hardener for interior use
customer's specifications.	641 - 721 ft ² /gallon	only. Urachem R1100 is the recommended
	(varies by color)	hardener for exterior use (Note ratio change
	7 Direct Immedia	when using Urachem R1100 – see below).
	7. Direct Impact: 100 inch lbs.	Mix Ratio:
Randolph Products Co. warrants that its	100 men 105.	Mix Natio.
products meet its internal specifications and	8. Reverse Impact:	Interior Application:
are of merchantable quality. However, the	80 inch lbs	6 parts Conductive Urachem Part A; 1
purchaser is solely responsible for the		part Urachem R500 hardener; 3 parts
suitability of the product for any particular	9. Humidity Exposure:	W283 Reducer
application. The purchaser should	250 hours with no blistering	
thoroughly test or qualify the product for	10 0 110	Exterior Application:
serviceability, environmental compliance and health and safety factors prior to use.	10. Pot Life:	4 parts Conductive Urachem Part A; 1 part Urachem R1100 hardener; 2 parts
Further, our total liability is limited to the	4 hours	W283 Reducer
price of the product or replacement in kind.	11. Salt Spray Exposure:	
r r r	100 hours no blistering	Base Coat: Apply smooth wet coat
Randolph Products Company		approximately 3.0 mils wet. Allow $15 - 20$
33 Haynes Circle	12. Solvent Resistance: 50 double rubs	minutes flash off prior to texture coat or
Chicopee, MA 01020	- "No effect" is defined as no permanent	force drying.
Phone: 413-592-4191	softening of film and/or permanent change	
Fax: 413-594-7321	in appearance.	Texture Coat: Use same admixed paint
www.randolphproducts.com		for texture. Adjust pressures accordingly

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to match texture pattern. Allow 15 - 20Isopropyl Alcohol: No effect Lacquer Thinner (T4-1): No effect minutes flash off before force drying. MEK: No effect **Pressure:** Skydrol: No effect **Base Coat:** 13. Chemical Resistance: 30 minutes Fluid pressure 8 – 15 psi Atomizing pressure 45 -55 psi uncovered exposure spot test. **409 Cleaner:** No effect **Texture Coat:** Fantastic: No effect Fluid pressure 8 – 15 psi Household Ammonia: No effect Atomizing pressure 10 - 20 psi 10% NaOH: No effect 10% HCl: Slight staining Pressures will vary according to spray 5% Acetic Acid: Slight staining equipment and part configuration. **Ketchup:** Slight staining **Mustard:** Slight staining **Drying Times: Coffee:** No effect Windex: No effect Flash off prior to texture coat or force dry Hospital Antiseptic Cleaners: No for 15 - 20 minutes. Effect Dry to handle: Overnight or 20 minutes at 150°F. 14. Surface Conductivity: Dry to package or secondary operation: $<10^{8}$ Overnight or 40 minutes at 150°F – always allow parts to cool prior to secondary **15. VOC (as applied):** 5.1 lbs/gallon processing. Do not pack in plastic bags. 16. Shelf Life: One Year **Clean Up:** Use lacquer thinner or #928 Washing Thinner. **Safety Precautions:** This product is intended for professional use in an industrial environment only. Consult the Material Safety Data Sheet prior to application.