





TOUGH PROTECTIVE COATING

U-POL's RAPTOR Tough and Tintable Protective Coating is a 2K polyurethane coating that provides surfaces with a protective barrier. RAPTOR Tintable is also available.

FEATURES

DURABLE

Provides tough mechanical damage and stain resistant surface. Protects against rust and corrosion.

UV RESISTANT

Delivers a high level of fade resistance.

WATER RESISTANT

Provides a water resistant finish, keeping moisture out and reducing rust.

RESISTANT

Resistant to a wide range of chemicals including fuels, hydraulic oils, animal urine, salt water and more.

• QUICK & EASY TO USE

Easy as Fill-Shake-Shoot.

Provides excellent adhesion across many substrates.

Can be applied with Schutz Gun, HVLP gun, roller or brush.

CERTIFICATES

FIRE RESISTANCE

RAPTOR has passed flammability testing for motor vehicles according to the test methods FMVSS 302, ISO 3795 & BS AU 169A.

• SLIP RESISTANCE

When used with RAPTOR Traction Additive it produces a finish meeting BS7976-2.





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Cubatratas	Original Deligt		0140	
Substrates	Original Paint	Polyester Fillers	• SMC	
	Aluminium*	 Rigid Plastic* 	 E-coat* 	
	 Bare Metal* 	 Fiberglass 	 Concrete* 	
	 Galvanized* 	• GRP	 Wood* 	
		s require additional surface prepar Substrate Preparation section for c		
Substrate Preparation	To achieve best resul	ts with RAPTOR, good preparatio	n is essential.	
	1. Remove all loos	1. Remove all loose material and any rust from the surface to be coated.		
	2. Clean and degre	2. Clean and degrease the surface.		
	3. Abrade the surface with P80 -P180 grit sand paper.			
	4. Re-clean the surface.			
	Localized rub-th ACID#8. Large exposed a	e metal, and galvanized: rus: prime with an etch primer, suc areas of bare metal: Full 2K prime prrosion resistance.		
	promoter, such a	ter abrading, clean and degrease t as U-POL's GRIP#4 or System 20 R can go direct to stable wood.		
		st results, clean the surface and rereased in the sealer before applying RAPT		
	* OEM E-Coat: sc degrease.	uff the surface with an coarse abr	asive pad then clean and	
		h areas such as internal corners e ter for optimal adhesion.	etc. coat first with a suitable	







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MIXING



	SCHUTZ Gun	HVLP Gravity Gun
RAPTOR : Hardener	3:1	3:1
U-POL SYSTEM 20 Fast Thinners	Ready to use, no thinner needed	Up to 15-20% maximum to reduce the texture. About 25% more coverage* *Addition of thinner/reducer will affect the product VOC.

Simply FILL the RAPTOR coating bottle with 250ml of hardener, replace cap and SHAKE contents vigorously for at least 2 minutes. SHOOT.

Mixing by weight

Grams	Coating (A)	Hardener (B)
1000g	777g	223g
500g	388g	112g

Use of an accelerator is not required.

Only mix one bottle of RAPTOR at a time. Clean gun between mixes. Do not overtighten cap as this may cause the cap to split.

2K ISOCYANATE HARDENER

- Specially designed to provide optimum results independent of climatic conditions and size of repair.
- RAPTOR hardener must not be used on its own, it can only be used with RAPTOR coating.



Shelf Life Storage Temperature 12 months in unopened containers. Lids must be replaced after every use. +5°C (41°F) - +25°C (77°F)







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APPLICATION

Standard Schutz Application

- 1. Remove cap from RAPTOR bottle with the mixed RAPTOR.
- 2. Attach the RAPTOR bottle to the U-POL SCHUTZ GUN.
- 3. Adjust the air pressure to 2.75 4.10 bar (40-60 PSI).
- 4. Apply to the prepared surface with an even sweeping motion to obtain the desired texture.
- 5. If applying additional coats allow to flash off for 60 minutes between coats.

U-POL recommends that you spray a test panel with RAPTOR first to ensure the desired texture is achieved.

How to achieve common textures with a U-POL Schutz Gun;

- 1. Standard texture through Schutz Gun:
 - Ø 4 Bar (60 PSI)
 - Ø Distance from object 50cm (1.5 foot)
 - Ø 2 coats with an even sweeping motion
- 2. Coarse texture through Schutz Gun:
 - Ø Mix RAPTOR and allow to stand for 10-minutes
 - Ø 3 Bar (45 PSI)
 - Ø Distance from object 50cm (1.5 foot)
 - Ø 2 coats 1 even sweeping motion, 2nd dropping the coat over the first

How to achieve common textures with a HVLP gun;

- 3. Fine texture through HVLP gravity fed gun, 1.6-2.0mm
 - Ø Add 15% reducer
 - Ø 2 Bar (29 PSI)
 - Ø Distance from object 20cm (>0.5 foot)
 - Ø 1st coat even wet coat, second coat reduce pressure and material flow to achieve a fine mist
- 4. Standard texture through HVLP gravity fed gun, 1.6-2.0mm
 - Ø Add 15% reducer
 - Ø 2 Bar (29 PSI)
 - Ø Distance from object 20cm (>0.5 foot)
 - Ø 1st and second coats applied as even wet coats

The above recommendations are based on our experience with RAPTOR and represent only a few examples of the types of textures that can be acehived. It is recommended that a trial application is made to fine tune the finish before applying onto the finished object.















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	4 Deve mixed DARTOD into a suitable resist trav
Rolling RAPTOR	1. Pour mixed RAPTOR into a suitable paint tray.
	2. Cut in all corners and hard to reach areas with a brush.
	3. Apply using an open textured roller.
	 Load roller with the product and apply slowly using medium pressure. Rolling on RAPTOR results in a lower build. Additional coats will be necessary. When applying additional coats, observe 60 minute flash off period between coats.
Do not use in extreme cold or hot temperat Ideal application temperature is 20°C (68°F	
Coats	U-POL recommends applying 2 medium coats of RAPTOR.
Build / microns As applied using SCHUTZ Gun	1 Coat: 230μ (9.0 Mils) 2 Coats: 475μ (18.7 Mils) All measurements are approximate and are dependent on the application method. See document "Indicative Consumption" for a variety of applications available from www.u-pol.com.
Flash-off / min @ 20°C (68°F)	
Between coats	60 minutes
IMPORTANT! Do not place heavy loads or	the surface until RAPTOR is fully cured. Please see dry times below.
Drying Times	
Touch Dry @ 20°C (68°F)	Less than 1 hour
Through Dry @ 20°C (68°F)	5-7 days
Reducing flash off time, excessive f RAPTOR to come in contact with wa	ilm build and/or reduced temperatures will alter drying time. Do not allow ater for at least 72-hrs.
Higher temperatures will result in sh film builds will extend the final cure	orter flash time and colder temperatures will require a longer flash time. Higher time.
Baking	RAPTOR can be baked for 30 minutes @ 60°C (140 ⁰ F). Baking will speed up the initial cure, but it is still recommended waiting 7 days for regular use.
I.R. Cure	I.R. curing is not recommended.
Over Painting	RAPTOR can be overpainted with most modern paint systems. When overpainting, prep the surface as follows:
	1. Let sprayed RAPTOR dry for 24 hours.
	2. Abrade with a fine abrasive pad.
	3. Clean and degrease.
Adding RAPTOR Traction Anti-Slip Granules	See RAPTOR TRACTION SOP .







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	PRO	PERTIES	
Data			
Flash point	-18°C (-0.4°F)		
Solid content	Approx. 57 %		
Specific gravity	Approx. 1120g/l (9.18lb/gal US)		
Chemical Resistance For further information see doo household chemicals.	Xylene: ReHydraulic 0	effectNaOH: No effectsistant to splashesBleach: No effectesistant to splashesAlcohol: No effectOil: No effectUrine: No effectD1308" available on www.u-pol.com for resistance to	
Dielectric breakdown	4.8 kV/mm (122	2 V/Mil) ASTM D 149	
Temperature Resistance	-18°C to 100°C	(-0.4°F to 212°F)	
	STORAGE & V	OC INFORMATION	
Shelf Life	2 years from date of manufacture in sealed original containers.		
Storage	RAPTOR should be stored in cool, dry conditions in the original containers.		
Equipment Cleaning	Clean spray gun in-between mixes. All equipment should be thoroughly wash with acetone immediately after use.		
VOC Information	840g/litre.	this product (product category: IIB(e) in ready to use form is nt of this product in ready to use form is 486g/litre.	
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Order Code	UP Number	Description	
RLB/1	UP0822	RAPTOR Black 750ml	
RLB/S4	UP0820	RAPTOR Black 4L Kit	
OWNRLBV/200	OWNRLBV/200	RAPTOR Black 200L Drum	
RLB/SV4	UP0820V	RAPTOR Black 2.6 VOC 4L Kit	
RLB/S17-4	UP0825	RAPTOR Black 1.7 VOC 4L Kit	
RLH/1	UP0826	RAPTOR Hardener 1L	
RLHV/1	UP0827	RAPTOR Hardener 2.6 VOC 1L	
RLH17/1	UP0828	RAPTOR Hardener 1.7 VOC 1L	
GUN/1	UP0726	Schutz Gun	
ACID/AL	UP0741	ACID#8 Etch Primer 450ml Aerosol	
ACID/1	UP0776	ACID#8 Etch Primer 1L	
GRIP/AL	UP0799	GRIP#4 450ml Aerosol	
S2003/1	UP2031	System 2003 Plastic Primer 1L	
S2003/AL	UP2032	System 2003 Plastic Primer 450ml Aerosol	
RLTR/SM	UP4800	RAPTOR TRACTION 200g Sachet	

IMPORTANT: FOR PROFESSIONAL USE ONLY. Read full instructions before use.

This product contains hazardous materials and therefore appropriate personal protective equipment should always be used. Please refer to the label and consult the material safety data sheet for full handling instructions and personal protection information. U-POL disclaims any liability where the user does not wear the recommended personal protective equipment. The above data is for information only and may change without prior notice. It is the Buyers responsibility to ensure the suitability of the products for their own use and check the up-to-datedness of this information. The recommendation of use of our products and application are based on our knowledge and experience. Please refer to the label and consult the material safety data sheet for full handling instructions and personal protection information. These are available via your local stockist or via the U-POL website at WWW.U-POL.COM. U-POL is not responsible for the results obtained by others over whose methods we have no control and thereof U-POL is not liable for consequential or incidental damages including loss of profits.

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