



RAPTOR TRUCK BED LINER - TINTABLE

2K PROTECTIVE URETHANE COATING

U-POL's RAPTOR Truck Bed Liner is a durable 2K urethane coating that provides surfaces with a protective barrier.

One Kit of RAPTOR includes:

- 4 x 750ml RAPTOR base coating
- 1 x 1L RAPTOR hardener

Features

- Easy to use: simply FILL - SHAKE - SHOOT®
- High coverage, up to 12 m²
- Provides excellent UV protection
- Waterproof - provides a water tight seal, keeping water out and eliminates the chance for rust
- Protects against rust, corrosion salt, damp, and extreme temperatures
- Abrasion and stain resistant
- Dries rapidly, is flexible, and helps deaden sound and vibrations
- Provides excellent adhesion
- No need to wax after application
- Can be tinted to match any colour

Substrate

Substrates

- Original Paint
- Aluminum*
- Bare Metal*
- Galvanized*
- E-coat*
- Polyester Fillers
- Plastic
- Fiberglass*
- GRP
- SMC
- Glass
- Concrete*
- Wood*

* Some substrates require additional surface preparation before applying RAPTOR. See Substrate Preparation section for details.



Substrate Preparation

To achieve best results with RAPTOR, good preparation is essential.

1. Remove all loose material and any rust from the surface to be coated
 2. Clean and degrease the surface
 3. Abrade the surface with P120-P180 grit sand paper
 4. Re-clean the surface
- * Aluminum, bare metal, and galvanized: Prime with an etch primer, such as U-POL's ACID#8
 - * Fiberglass and plastic: for optimal adhesion, use an adhesion promoter, such as U-POL's GRIP#4
 - * Wood and concrete: for best results, before applying RAPTOR, the surface must be sealed with a urethane, acrylic, or epoxy wood or concrete sealer. If the wood has been pre-treated or painted, clean and dry the wood before sealing.
 - * OEM E-Coat: scuff the surface with an abrasive pad then clean and degrease



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Mixing



Mixing Ratio

As simple as
FILL - SHAKE - SHOOT®



RAPTOR can be applied using U-POL's SCHUTZ gun or an HVLP Gravity Gun. Mix ratios are dependent on the type of gun used.

| | SCHUTZ Gun | HVLP Gravity Gun |
|--------------------------------------|---------------------------------|--|
| RAPTOR Hardener | 3:1 | 3:1 |
| Colour | Up to 10% Basecoat Tinter | Up to 10% Basecoat Tinter |
| U-POL SYSTEM 20 Fast Thinners | Ready to use, no thinner needed | Up to 10% to reduce the texture About 25% more coverage |

RAPTOR is easy to mix. Simply fill the RAPTOR coating bottle with hardener to the first ridge "A" (250ml/0.5 pints of hardener). Add basecoat tinter no higher than the second ridge "B"* (no more than 100 ml/10% of basecoat tinter by volume*). Replace cap and SHAKE contents vigorously for at least 2 minutes. SHOOT as follows.

RAPTOR requires solvent based toners, such as urethane based colour, 2K acrylic solid colour, or mixed acrylic basecoats. RAPTOR cannot be used with water based, polyester, or enamel paints. Add tint no more than 10% by volume. Toners are generally available through the distributor where you purchased your RAPTOR kit or any distributor who sells automotive finishes. *See FAQs for more info about tinting.

*** Only mix one bottle of RAPTOR at a time. Clean gun between mixes. ***

Application

Spraying RAPTOR

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 on your compressor to 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.

Rolling RAPTOR

1. Pour mixed RAPTOR into a suitable paint tray
2. Apply using an open textured roller
3. Cut in all corners and hard to reach areas with a brush
4. Load roller with the product and apply slowly using medium pressure
5. Rolling on RAPTOR results in a lower build. Additional coats will be necessary. When applying additional coats, observe 40 minute flash off period between coats



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Do not use in extreme cold or hot temperatures.
Ideal application temperature is 20°C with humidity of less than 60%.



Coats

Build / microns
As applied using GUN/1

U-POL recommends applying 2-3 coats of RAPTOR.
More than 3 coats is not recommended.

1 Coat: 7.0 MILs 2 Coats: 12.0 MILs 3 Coats: 15.0 MILs
All measurements are approximate and are dependent on the application method.



Flash-off / min @ 18-22°C

Between coats

60 minutes

IMPORTANT! Do not place heavy loads on the surface until RAPTOR is fully cured. Please see dry times below.



Drying Times

Touch Dry @ 20°C

Less than 1 hour

Light Duty @ 20°C

2-3 days

Regular Duty @ 20°C

5-7 days

Reducing flash off time, excessive film build and/or reduced temperatures will alter drying time.

Baking

RAPTOR can be baked for 30 minutes @ 60°C. Baking will speed up the initial cure, but it is still recommended that you wait 2-3 days for light usage and 7 days for heavy duty usage.

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

Frequently Asked Questions

Preparation

Q. Can RAPTOR be applied on top of a 2-part Epoxy Primer?

A. As long as the primer is fully cured, RAPTOR can be applied on top of a properly prepared and sanded 2-part epoxy primer.

Q. Can RAPTOR be applied on top of a basecoat?

A. RAPTOR can be applied on top of a basecoat. The basecoat must be fully cured and properly prepared and sanded before applying RAPTOR.

Q. Can RAPTOR be applied on top of a powder coat?

A. Yes, RAPTOR can be applied on top of a properly prepared and sanded powder coat.



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Q. Can you use automotive paint tape with RAPTOR?

A. Yes, you can use automotive tape with RAPTOR. Wait between 15-20 minutes after applying RAPTOR before removing the tape.

Technical Properties

Q. How can I get a textured grip finish?

A. Add about ¼ - ½ cup per RAPTOR Bottle of clean/dry silica sand. Mix in the bottle and spray. If sand is added after RAPTOR is sprayed, the sand will not fully adhere and will eventually brush off.

Q. What is the gloss level of RAPTOR?

A. The gloss level of Black RAPTOR is approximately 10 gloss units, or a satin finish.

Q. What is the Shore Hardness of RAPTOR?

A. The Shore D value for fully cured RAPTOR is 85.

Q. Does RAPTOR contain any rubber?

A. No, there is no rubber in RAPTOR. RAPTOR is a thick urethane coating, which gives it great UV stability and impact resistance without the use of additives such as rubber.

Q. Is RAPTOR isocyanate free?

A. No, RAPTOR uses an isocyanate hardener.

Q. What is the maximum temperature after applied?

A. The maximum temperature after application is 85°C.

Tinting

Q. What can RAPTOR be tinted with?

A. For best results, use solvent based acrylic basecoat toners (ask your paint supplier to leave out the binders). NOTE: acrylic basecoat toners tend to have high colour strength so use sparingly (less than 10% tint by volume). RAPTOR is compatible with any urethane based colour, including 2K acrylic solid colour and mixed acrylic basecoats, and can be added up to 10% by volume. RAPTOR cannot be used with water based, polyester, or enamel paints.

Q. I don't need a shiny application. How can I get a dull finish?

A. There are proprietary matting agents available for other 2K products, which are suitable for use in RAPTOR.

Q. Does the milk colour of RAPTOR lighten up the tint colour? How can I get a brilliant colour?

A. For best colour match results, Tintable RAPTOR requires a urethane single stage colour. If you choose to use basecoat, ask your paint supplier to leave the binder out of the formulation so it is pure pigment. The final colour will appear slightly lighter than the base colour. Once mixed, check the colour of the tinted system before spraying and adjust if critical.

Q. How do you change the colour after an incorrect colour has been sprayed?

A. If the colours are close, reapply with the correct shade of RAPTOR. If the colours are not close, strip back the original RAPTOR and reapply.



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Properties



Data

| | |
|-------------------------------|-------------|
| Flash point | -18°C |
| Solid content without thinner | Approx 57 % |
| Specific weight | Approx 1.1 |

Chemical Resistance

- Diesel: No effect
- Petrol: Surface softening
- Xylene: Surface softening
- Hydraulic Oil: No effect
- NaOH: No effect
- Bleach: No effect
- Alcohol: No effect
- Horse urine: No effect

Storage & VOC 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 washed immediately after use.



VOC Information

The EU limit for this product (product category: IIBb) in ready to use form is 293 g/litre. The VOC content of this product as received is 218 g/litre.

The EU limit for this product (product category: IIBb) as applied is 389 g/litre. The VOC content of this product as applied is 314 g/litre.

| Order Code | Format | Colour |
|------------|---------------|----------|
| RLT/1 | 750 ml Bottle | Tintable |
| RLT/S4 | 4L Kit | Tintable |

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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