



TECHNICAL DATA SHEET & PROCESS GUIDE

SMART TRUCK BED LINER - TINTABLE

2K PROTECTIVE URETHANE COATING

SMART Truck Bed Liner (SMT2931) is a durable 2K polyurethane coating that provides surfaces with a protective barrier.

SMART Black Truck Bed Liner (SMT2930) is also available.

One Kit of SMART Bed Liner includes:

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

Features and Benefits

- Easy to use: simply fill, shake, and shoot.
- High coverage, up to 125 ft².
- 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 color.



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Substrates and Preparation

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. See Substrate Preparation section for details.*



Substrate Preparation

To achieve best results, 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 abrasives.
- 4 Re-clean the surface.

- * Aluminum, bare metal, and galvanized: Prime with an etch primer, such as two coats of SMART 3919 Gray Etching Primer.
- * Fiberglass and plastic: For optimal adhesion, use an adhesion promoter, such as SMART SMT3920.
- * Wood and concrete: For best results, before applying 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

SMART Bed Liner is easy to mix. Simply fill the 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.

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

SMART Bed Liner can be applied using a Schutz gun or an HVLP Gravity Gun. Mix ratios are dependent on the type of gun used.

Mixing by volume

Pints	Coating (A)	Hardener (B)	Max Tint
2	28oz	8oz	3.2oz
1.5	21oz	6oz	2.7oz
1	14oz	4oz	1.8oz
ML			
1000	840g	241g	109g
750	630g	181g	81g
500	420g	121g	54g
250	210g	60g	27g

Mixing by weight

Grams	Coating (A)	Hardener (B)	Max Tint
1000g	777g	223g	100g
500g	388g	112g	50g
Pounds			
1.0lb	12.4oz	3.6oz	1.6oz
0.5lb	6.2oz	1.8oz	0.8oz

SMART Hardener
Color
Fast Thinners

GUN
3:1
Up to 10% Basecoat Tinter

Ready to use, no thinner needed

HVLP Gravity Gun
3:1
Up to 10% Basecoat Tinter
Up to 10% to reduce the texture
About 25% more coverage

SMART Bed Liner requires solvent based toners, such as urethane based color, 2K acrylic solid color, or mixed acrylic basecoats. SMART Bed Liner 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 SMART Bed Liner kit or any distributor who sells automotive finishes. *See FAQs for more info about tinting.



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Application

Spraying

- 1 Remove cap from bottle with the mixed bed liner.
- 2 Attach the bottle to the spray 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.

We recommend that you spray a test panel first to ensure the desired texture is achieved.

Rolling

- 1 Pour mixed bed liner 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 results in a lower build. Additional coats will be necessary. When applying additional coats, observe 40 minute flash off period between coats.

Do not use in extreme cold or hot temperatures. Ideal application temperature is 68°F (20°C) with humidity of less than 60%.



Coats

We recommend applying 2-3 coats of SMART Bed Liner. More than 3 coats is not recommended.

MIL Build: As applied

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 @ 68°F



Wait 60 minutes between coats.

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



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Drying Times

Touch Dry @ 68°F	Less than 1 hour
Light Duty @ 68°F	2-3 days
Regular Duty @ 68°F	5-7 days

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

SMART Bed Liner should not be covered until it has fully cured which takes about 5-7 days. Covering with tarps or plastic sheeting before it has cured does not allow the solvents to escape and won't allow bed liner to fully cure.

Baking

SMART Bed Liner can be baked for 30 minutes @ 140°F. 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

SMART Bed Liner can be overpainted with most modern paint systems. When overpainting, prep the surface as follows:

- 1 Let sprayed product dry for 24 hours.
- 2 Abrade with a fine abrasive pad.
- 3 Clean and degrease.

Equipment Cleaning

Clean spray gun in-between mixes. All equipment should be thoroughly washed immediately after use.

Shelf Life

2 years from date of manufacture in sealed original containers.

Storage

SMART Bed Liner should be stored in cool, dry conditions in the original containers.



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Properties & VOC Information



Data

Flash point	-0.4°F
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



VOC Information

SMART SMT2931 Tintable 4L Kit

As Received	Regulatory:	293 g/l (2.4 lbs/gal)
	Actual:	218 g/l (1.8 lbs/gal)
As Applied	Regulatory:	389 g/l (3.2 lbs/gal)
	Actual:	314 g/l (2.6 lbs/gal)



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Frequently Asked Questions

Preparation

- Q. Can SMART Bed Liner be applied on top of a 2-part Epoxy Primer?**
A. As long as the primer is fully cured, SMART Bed Liner can be applied on top of a properly prepared and sanded 2-part epoxy primer.
- Q. Can SMART Bed Liner be applied on top of a basecoat?**
A. SMART Bed Liner can be applied on top of a basecoat. The basecoat must be fully cured and properly prepared and sanded before applying SMART .
- Q. Can SMART Bed Liner be applied on top of a powder coat?**
A. Yes, SMART Bed Liner can be applied on top of a properly prepared and sanded powder coat.
- Q. Can you use automotive paint tape with SMART Bed Liner?**
A. Yes, you can use automotive tape with SMART Bed Liner. Wait between 15-20 minutes after applying SMART Bed Liner before removing the tape.

Technical Properties

- Q. How can I get a textured grip finish?**
A. Add about ¼ - ½ cup per SMART Bed Liner Bottle of clean/dry silica sand. Mix in the bottle and spray. If sand is added after SMART Bed Liner is sprayed, the sand will not fully adhere and will eventually brush off.
- Q.**
A. Can SMART Bed Liner be reduced?
Yes, SMART Bed Liner can be reduced up to 10%. When reducing SMART Bed Liner, use a urethane based reducer.
- Q.**
A. What is the gloss level of SMART Bed Liner?
The gloss level of Black SMART Bed Liner is approximately 10 gloss units, or a satin finish.
- Q.**
A. What is the Shore Hardness of SMART Bed Liner?
The Shore D value for fully cured SMART Bed Liner is 85.
- Q.**
A. Does SMART Bed Liner contain any rubber?
No, there is no rubber in SMART Bed Liner. SMART Bed Liner is a thick polyurethane coating, which gives it great UV stability and impact resistance without the use of additives such as rubber.
- Q.**
A. Is SMART Bed Liner isocyanate free?
No, SMART Bed Liner utilizes an isocyanate hardener.
- Q.**
A. What is the maximum temperature after applied?
The maximum temperature after application is 185°F.



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Tinting

Q. What can SMART Bed Liner 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 color strength so use sparingly (less than 10% tint by volume). SMART Bed Liner is compatible with any urethane based color, including 2K acrylic solid color and mixed acrylic basecoats, and can be added up to 10% by volume. SMART Bed Liner 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 in the U.S. for other 2K products, which are suitable for use in SMART Bed Liner.

Q. Does the milk color of SMART Bed Liner lighten up the tint color? How can I get a brilliant color?

A. For best color match results, Tintable SMART Bed Liner requires a urethane single stage color. 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 color will appear slightly lighter than the base color. Once mixed, check the color of the tinted system before spraying and adjust if critical.

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

A. If the colors are close, reapply with the correct shade of SMART Bed Liner. If the colors are not close, strip back the original SMART Bed Liner and reapply.



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PRODUCT CODES

Product Code		Description	Case Quantity
SMT2930		SMART Black Bed Liner 4L Kit	1
SMT2931		SMART Tintable Bed Liner 4L Kit	1

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. FinishMaster 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 FinishMaster website at www.finishmaster.com. FinishMaster is not responsible for the results obtained by others over whose methods we have no control and thereof FinishMaster is not liable for consequential or incidental damages including loss of profits.

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