

# TECHNICAL DATA

www.internationalepoxies.com

## INTER-LINER™ Aromatic Polyurea Coating

**INTER-LINER** is a two component, 100% solids, aromatic polyurea durable coating that is used to protect against abrasion, corrosion, chemicals, and provide anti-skid protection. **INTER-LINER** offers high tensile strength and impressive elongation. Will not crack, peel or warp when permanently bonded to a properly prepared surface.

Applications: Truck bedliners, undercoating, rocker panel protection, floor pans, trunk lining, truck fender protection, dump trucks beds, recreational vehicles, emergency vehicles, utility trailers, horse trailers, anti-skid floor applications, decks, steps, mining equipment preservation, solid waste handling equipment, water and sewage treatment equipment, tanks, pipes, hoppers, agriculture equipment, military blast protection, architectural structures and many more.



<b>AVAILABLE:</b>	<b>8708</b>	1500ml Dual Cartridge - Black (with one Medium spray mixer)	6/case
	<b>8709</b>	1500ml Dual Cartridge - Gray (with one Medium spray mixer)	6/case
	<b>8747</b>	Fine Static Mixer Atomizer	6/pkg
	<b>8736</b>	Medium Static Mixer Atomizer	6/pkg
	<b>8741</b>	Heavy Static Mixer Atomizer	6/pkg
	<b>96217</b>	HSS Regulator Kit (for #96218 gun)	1/case
	<b>96218</b>	Pneumatic Gun - Disp. 1500ml 1:1	1/case
	<b>96218WR</b>	Pneumatic Gun - Disp. 1500ml w/regulator	1/case

### PHYSICAL PROPERTIES

<b>Color:</b>	Black or Gray
<b>Coverage:</b>	Each case of six (1500 ml kit) will cover 100 sq./ft. @ 38mil
<b>Gel Time (sec) @ 77°F:</b>	15 seconds
<b>Tack Free (minutes) @ 77°F:</b>	1 minute
<b>Walk On Time @ 77°F:</b>	1 Hour
<b>Light Duty Time @ 77°F:</b>	8 Hours
<b>Heavy Duty/Full Cure Time @ 77°F:</b>	24 Hours
<b>Tensile Strength:</b> ASTM D-412	
Strength (p.s.i. at break):	2200
Elongation (% at break):	490
<b>Tear Resistance:</b> ASTM D-624	
Die C Tear Resistance (pli):	410
Split Tear (pli):	130
<b>Shore Hardness:</b>	A: 92
<b>Taber Abrasion Test:</b>	Excellent
1000 cycles H-18 wheel 1 kg, Mg. loss	150

### LIQUID PROPERTIES

<b>Viscosity @ 25°C (cps) *</b>		
Polyol Component		1740
Polyisocyanate Component		2500
Brookfield Viscometer Spindle Size SV II St		
Exotherm Peak Temperature		175°F
100 gram mass		
<b>Flash Point, PMCC, °F</b>	Part A Isocyanate	420.8°F
	Part B Polyol	354.2°F
<b>Density:</b>		
Polyol Component		1.04
Polyisocyanate Component		1.09

**SHELF LIFE:** 6 months from date of purchase  
**APPLICATION TEMP:** approx. 65°F to 95°F  
**STORAGE TEMP:** approx. 60°F to 95°F

### CHEMICAL RESISTANCE

CHEMICAL	EXPOSURE	USE
Water	Minimal Swelling	Recommended
Salt Water	Minimal Swelling	Recommended
47.5% Ethanol	Swelling/Property Loss	Not Recommended
50% Acetic Acid	Swelling/Property Loss	Not Recommended
40% Caustic Soda	Minimal Swelling	Recommended
20% Sulfuric Acid	Minimal Swelling	Recommended
Ethylene Glycol	Minor Swelling/Property Loss	Conditionally
		Recommended
Diesel Fuel	Major Swelling/Property Loss	Not Recommended
Motor Oil	Minor Swelling	Recommended
Grease/Fats	Minimal Swelling	Recommended
Aromatic Solvents***	Major Swelling/Property Loss	Not Recommended
5% Nitric Acid	Minimal Swelling	Recommended
5% Sulfurous Acid	Minimal Swelling	Recommended
Milk of Lime	Minimal Swelling	Recommended
Sodium Sulfate	Minimal Swelling	Recommended
40% Formaldehyde	Minimal Swelling	Recommended
50% Propionic Acid	Major Swelling/Property Loss	Not Recommended
Ethyl Acetate	Major Swelling/Property Loss	Not Recommended
Diethyl Amine	Major Swelling/Property Loss	Not Recommended

*These items are provided for general information only. They are approximate values and are not part of the product specifications, therefore, it is imperative that you test this product to determine your own satisfaction whether it is suitable for your intended use.*

*\*\*\*Aromatic solvents tested include Acetone, Benzene, Carbon Tetrachloride, Chlorobenzene, Ethyl Acetate, Methylene Chloride, Naphthalene, Trichloroethane, Toluene and Xylene.*

*Minimal Swelling = 0% to 2% by volume.*

*Minor Swelling = 3% to 5% by volume.*

*Major Swelling = 10% or greater by volume.*

**NOTE: INTER-LINER Aromatic Polyurea Coating contains UV stabilizers to keep it from cracking, peeling or warping while it is exposed to the UV rays of the sun. However, the product will lose its gloss over time when exposed to UV light for extended periods of time.**

**LIMITED WARRANTY** - International Epoxies & Sealers (IES) warrants that Inter-Liner and Inter-Liner Hybrid UV products will be free from defects in material and workmanship and when used in accordance with the Inter-Liner directions, that it will not crack, bubble or peel. IES shall not be liable for any problems or claims arising from: faulty installation, malfunction, misuse, misapplication, applicator error, negligence, accidents, ancillary or collateral damage. IES's entire liability under this warranty will be to replace any Inter-Liner Product at no charge in which IES has determined the product to be defective.

## INTER-LINER™ DIRECTIONS



Step #2



Step #2



Step #3



Step #4



Step #5

### SURFACE PREPARATION

1. Remove all contaminants from the surface to be coated first using soap and water and then *IES Super Cleaning Solvent* to remove any silicone and/or waxes.
2. Neutralize all rust and corrosion using *IES Rust Raider*.
3. Mask all areas that are NOT to be coated to prevent over spray.
4. Bare metal surfaces should be primed with epoxy or 2K primer, then scuffed using a cup brush (*IES #7046*) or a DA sander with 120 grit sandpaper. A coarse scuff pad can be used where hand scuffing is required.
5. Aluminum and galvanized surfaces should be etched with *IES Rust Raider* for 30 minutes.
6. To insure a proper bond, it is strongly recommended to use #8700 *SECURE-BOND Polyurethane Bonding Agent/Primer*. Please see the *SECURE-BOND* label and Technical Sheet for more directions.

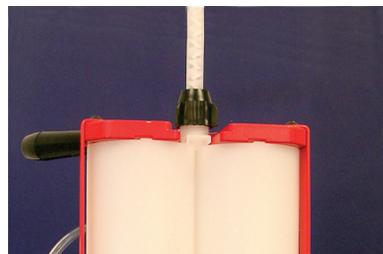
### APPLICATION

*INTER-LINER* can be applied using an INTER-LINER 1500 ml pneumatic dual cartridge spray gun. Consult the MSDS sheets for safety information before using this product. Make sure the compressed air source is dry and adequate to provide a constant inlet pressure of 95 psi at the gun. Set the regulator pressure going to the static mixer atomizer to 25 psi.

### SHAKE PRODUCT THOROUGHLY FOR ONE MINUTE BEFORE USING

### DIRECTIONS:

1. Before opening the cartridge, shake the cartridge for one minute to make sure any settled pigments are in solution. It is advised to use a paint shaker if you have one.
2. Keeping the cartridge in an upright position cut off the tips of the cartridges as shown. Making sure to cut them off evenly.
3. Keeping the cartridge upright, push the spray mixer on to the nose of the cartridge as shown.
4. Slide the nut down the spray mixer and screw the nut on to the cartridge. Be careful not to cross thread the nut. Make sure the nut is very tight and the spray mixer tip is secure. If this is not done properly, the mixer spray tip could leak at the nut and unmixed product could drip onto your spray surface causing bubbling and adhesion problems. It could also cause the mixture at the end of the mixer to be an unequal mix which could cause the product to stay tacky and not cure.
5. Keeping the cartridge in an upright position, load the cartridge into the gun as shown. Make sure the cartridge is aligned properly in the gun. If it is not aligned properly in the gun, the pneumatic pistons that push the plungers forward may tilt the plungers resulting in leakage at the back of the cartridge and producing an uneven mix. If this leakage occurs, stop spraying immediately to prevent unequal mixed product from contaminating the spray surface.



Step #5

continued on reverse....

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## INTER-LINER™ DIRECTIONS - con't

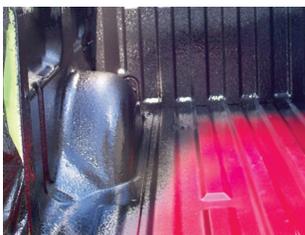


Step #6



#96218WR Pneumatic Gun w/Regulator

6. Attach the atomizer hose from the gun to the spray mixer tip by pushing the hose connector onto the connector on the spray mixer tip as shown.
7. Keep the gun and cartridge pointing upward until you are ready to start spraying.
8. Before you start spraying, make sure you have protected yourself, use a NIOSH approved respirator for isocyanates. Please read our MSDS sheet for personal protection and safety before using this product. An MSDS sheet can be found on our website at [www.internationalepoxies.com](http://www.internationalepoxies.com)
9. Attach the air supply to the gun. Make sure you have a continuous minimum of 95 psi at the gun while spraying.
10. In the area where you will begin spraying, position a discardable box close to where you will start. This box will be used to spray into when you start a new cartridge.
11. You are now ready to start spraying. The gun and cartridge at this point are still pointing upward, pull the trigger on the gun and then immediately point the gun down into the discardable box for a few seconds during this time adjust the air atomizer pressure to achieve the desired pattern and then move out from the box on to the spray surface. Once you have started the spraying process, keep pulling the trigger and keep spraying the object with even passes, until the cartridge is almost empty. Stop when the plungers are a ¼ of an inch from the end of the cartridge, this prevents any last residual air in the cartridge from causing an unequal mix of product from occurring. If you release the trigger and pause for even a short period of time, the product will setup in the mixer and it will be necessary to replace the mixer. (Do not attempt to spray with a partially clogged mixer)
12. When the cartridge is empty, disconnect the air atomizer hose from the spray mixer tip then push the reverse button on the back of the gun to retract the pneumatic pistons and remove the cartridge.
13. To continue spraying, load another cartridge into the gun repeating the instructions above until the desired thickness and texture has been achieved (the minimum recommended coating thickness for a bedliner is 38 mil). The final texture pattern can be achieved by lowering the air pressure to the spray mixer tip to increase the droplet size or increase the air pressure to the spray mixer to decrease the droplet size and then moving the gun quickly over the object until the desired pattern has been achieved.



Truck bed in progress.....

.....truck bed finished.



Rusted cart.....

.....rusted cart finished.



Old aluminum boat.....

.....aluminum boat finished.



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