



### PRODUCT MANUFACTURER

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### GENERAL PRODUCT DESCRIPTION

PAXCON PX-2100 is a two-component, high performance aromatic polyurea/polyurethane hybrid spray elastomer system zero VOC (Volatile Organic Compounds), 100% solid. PAXCON PX-2100 offers outstanding performance and superior elastomeric protective coatings for various substrates. PAXCON PX-2100 is designed as a user-friendly product with a built-in activator for quick cure times, and offers exceptional adhesion properties on properly prepared substrates. The high performance formulation of PAXCON PX-2100 produces an excellent skin formation for chemical resistance and moisture protection.

### APPLICATION GUIDELINES

**Both the Iso "A" Side and Resin "B" Side** should be pre-conditioned between 70°F to 90°F (21°C to 32°C) before application. PAXCON PX-2100 must be applied using high-pressure, plural component, heated, 1:1 by volume, spray equipment with 2,000 psi fluid pressure capability. PAXCON PX-2100 material (both Iso "A" Side and Resin "B" Side) should be heated between 120°F to 150°F (49°C to 66°C). Spray equipment must generate adequate fluid pressure for proper mixing and best polymerization results.

### APPLICATION EQUIPMENT

PAXCON PX-2100 is designed to be sprayed through high-pressure impingement mixing equipment. Plural component spray equipment must have material heat-control capability, 1:1 by volume, and sprayable with round or flat tip. Refer to equipment manufacturer for equipment specifics and accessories.

### EQUIPMENT SETTING PARAMETERS

**Iso "A" and Polyol "B" components must be** pumped by low-pressure transfer pumps to a suitable high-pressure proportional pumping system.

### Temperature Settings

<b>Iso "A" Block Heater:</b>	140°F - 160°F
<b>Resin "B" Block Heater:</b>	140°F - 160°F
Hoses (Iso and Polyol):	130°F - 150°F

### Hydraulic Pressure Setting

Equipment Hydraulic Pressure: 2,000 - 2,500 psi

### EQUIPMENT CLEAN UP

Spray equipment should be cleaned immediately **after use following equipment manufacturer's** recommended procedures. Please refer to spray equipment operating and maintenance procedures for further details. PAXCON PX-2100 should be cleaned with environmentally safe urethane-grade cleaners. Cleaning materials must be free of reactive contaminants such as water and alcohol. All gun cleaners and spray equipment cleaning materials must be used and disposed of as permitted under local rules and regulations.

### MATERIAL STORAGE

PAXCON PX-2100 has a shelf life of twelve (12) months from manufacture date in factory-sealed containers. PAXCON PX-2100 should be stored between 60°F to 100°F (16°C to 38°C). Do not expose unused materials to high humidity conditions. Always provide airtight reseal conditions to unused materials. For materials that are currently connecting to the pumps, always provide as much airtight and moisture free conditions to unused materials as possible to ensure proper chemical performance. Drums should be stored on pallets to avoid direct contact with the warehouse floor/ground.

### SAFETY AND HANDLING

Please refer to Safety Data Sheets (SDS) for safety and handling of this material. All personnel working with this material are expected to read and understand all safety recommendations per SDS. All Personal Protection Equipment must be properly worn to comply with worker health and safety requirements.



# TECHNICAL DATA SHEET

## LINE-X® PAXCON PX-2100

December 2016

### CHEMICAL TECHNICAL DATA

Mix Ratio by Volume:	1A:1B
Gel Time:	6 - 9 sec
Tack Free Time:	10 - 15 sec
Viscosity (cP) @ 77°F	
<b>"A" Iso Side:</b>	550 ± 100
<b>"B" Resin Side:</b>	1100 ± 100
Material Density (lbs/gal) @ 77°F	
<b>"A" Iso Side:</b>	9.6 lbs/gal
<b>"B" Resin Side:</b>	8.6 lbs/gal

<u>Test Name</u>	<u>Test Methods</u>	<u>Value</u>
Thermal Conductivity (DSC)	ASTM E1952	.14 W/Km
Water Vapor Trans.	ASTM E96	0.796 grains/ft <sup>2</sup> /hr

### ADDITIONAL PRODUCT CERTIFICATIONS

- MIL-STD-810F - Fungus Resistance

### BASIC PHYSICAL PROPERTIES

All tests are performed by independent third-party material test laboratories:

- OCM Test Laboratories
- ISO 17025 Certified
- American Association for Laboratory Accreditation (A2LA)
- Truesdail Laboratories, Inc.
- Pira International Material Test Lab

<u>Test Name</u>	<u>Test Methods</u>	<u>Value</u>
Coefficient of Friction	ASTM D1894	
Static		0.546
Kinetic		0.185
Dielectric Const.	ASTM D150	3.5
Dielectric Strength	ASTM D149	440 volts/mil
Dissipation Factor	ASTM D150	0.025
Volume Resistance	ASTM D257	2.4 x 10 <sup>13</sup> ohm cm
DMA Test	ASTM D4065	-39°C
<b>(Loss Modulus, E" Tg)</b>		
Elongation	ASTM D412	91%
Flexural Strength	ASTM D790	1,190 psi
Flexural Modulus	ASTM D790	0.024 msi
Fungus Resistance	MIL-STD 810F	Pass
Hardness Shore D	ASTM D2240	50 ± 1
Impact	ASTM D2794	134 in-lbs
Methane Permeability	ASTM D1434	132 cc/m <sup>2</sup> .d
Pull-off Test—Adhesion	ASTM C297	
To Metal – No Primer		1,300 psi
To Metal – XPM Primer		1,750 psi
To Metal – LX SF-515 Primer		1,930 psi
Safe Walking Surfaces	ASTM F1637.95	.98 - Dry .87 - Wet
Salt Spray	ASTM B117	Rating 10
(3,000 hrs.)		
Taber Abrasion	ASTM D4060	152.4
(mg Loss/1000 cycles)		
Tear Strength	ASTM D624	490 lbs/in
Tensile Strength	ASTM D412	2,150 psi



### CHEMICAL RESISTANCES PER ASTM D543 FOR IMMERSION IN FLUIDS METHODS

PAXCON PX-2100 materials are immersed in the chemicals below for a period of 7 days; physical properties of pre- and post-immersion were measured to quantify the changes in product physical properties.

Chemical Names	Volume Change (%)	Hardness Change (%)	Elongation ASTM D412 Change (%)	Tensile Strength ASTM D412 Change (%)	Recommendations
Ammonium Chloride 30%	2%	-11%	NA	NA	Yes
Ammonium Hydroxide	3%	-2%	125%	-45%	Yes
Automotive Gasoline	11%	-29%	-46%	-57%	Yes
Automotive Oil	0.5%	-11%	113%	-37%	Yes
Aviation J.P. Fuel	19%	-31%	-29%	-42%	Yes
Baking Soda 25%	3%	-17%	108%	-46%	Yes
Benzene	-2%	-19%	108%	-61%	Yes
Boric Acid 3%	17%	-2%	4%	-44%	Yes
Calcium Chloride 50%	4%	-27%	3%	-42%	Yes
Calcium Hypochloride 5%	4%	-13%	0.4%	-48%	Yes-Secondary Containment
Citric Acid 10%	5%	-23%	111%	-46%	Yes
Club Soda	0%	-3%	59%	0.6%	Yes
Cream Soda	4%	-21%	9%	-45%	Yes
Crude Oil (Heating)	12%	-15%	10%	-48%	Yes
Diesel Fuel	8%	-15%	2%	-42%	Yes
Ethylene Glycol	4%	-20%	3%	-53%	Yes
Hydraulic Fluid (Oil)	4%	-20%	4%	-37%	Yes
Hydrogen Peroxide 10%	9%	-22%	130%	-54%	Yes
Kerosene	8%	-17%	77%	-51%	Yes
Lactic Acid 20%	11%	-28%	101%	-54%	Yes
Methylene Chloride	1%	-20%	NA	NA	Yes
Mineral Spirits	8%	-16%	-6%	-45%	Yes
Nitric Acid 10%	13%	-28%	122%	-54%	Yes-Secondary Containment
Potassium Hydroxide 50%	4%	-17%	-10%	-5%	Yes
Saline Solution 30%	3%	-19%	2.8%	-41%	Yes
Sea Water	3%	-20%	5%	-44%	Yes
Sodium Carbonate 10%	2%	-19%	8%	-38%	Yes
Sodium Chloride 30%	4%	-13%	29%	-38%	Yes
Sodium Hydroxide 50%	23%	-15%	95%	-46%	Yes
Sodium Hydroxide 10%	-12%	-13%	102%	-45%	Yes
Sodium Sulfate 30%	3%	-21%	143%	-39%	Yes
Sodium Sulfate 20%	3%	-17%	125%	-44%	Yes
Sugar Solution 30%	4%	-20%	20%	-45%	Yes
Sulfuric Acid 10%	6%	-26%	2%	-40%	Yes
Toluene	-1%	-21%	82%	-66%	Yes
Water (H2O)	3%	-20%	-5%	-45%	Yes



### LIMITATIONS

The chemical resistance chart should be consulted prior to application; this is an exhaustive chemical compatibility list quantifying pre and post physical properties for chemicals exposure per ASTM D543. Application specific processing parameters such as temperature and operating pressure of coated objects must be considered before installing PAXCON PX-2100 coatings system.

a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and LINE-X makes no claim that these tests or any other tests accurately represent all environments.

### PRODUCT USER RESPONSIBILITIES

Users of PAXCON PX-2100 product are responsible for reading the general guidelines, product data sheets, specifications and Safety Data Sheets (SDS) before using this material. Printed technical data and instructions are subject to change without notice. Contact your local LINE-X representative or visit our website [www.LINE-X.com](http://www.LINE-X.com) for current technical data instructions.

### PRODUCT DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazards listed herein are the only ones that may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by