TECHNICAL DATA SHEET

PAXCON PX-3350

PRODUCT MANUFACTURER:

LINE-X Franchise Development Corporation
6 Hutton Centre Drive, Suite 500
Santa Ana, CA 92707

GENERAL PRODUCT DESCRIPTION:

PAXCON PX-3350 is a two component, 100% high performance aromatic polyurea spray elastomer system. Zero VOCs(volatile organic compounds) and 100% solid, PX-3350 offers outstanding performance and superior elastomeric protective coatings for various substrates. PX-3350 is designed as a user friendly product for moisture insensitive applications because of its pure polyurea chemistry and exceptional adhesion properties to practically and properly prepared substrate. The high performance chemicals formulation of PX-3350 produces an excellent skin formulation for chemical resistances and moisture protection barriers.

FEATURES:

Excellent Thermal Stability
Low Permeability Rate
Low Temperature Flexibility
Good Chemical Resistance
Seamless
Fast Reactivity and Cure Time (No Catalysts)

AREAS OF APPLICATIONS:

Force Mitigation
Blast Mitigation
High Performance Protective Coatings Applications
High Chemical Resistance Applications

APPLICATION:

Both ISo “A” Side and Resin “B” Side should be preconditioned between 70° – 90° F before application. PAXCON PX-3350 must be applied using a high-pressure, plural component, heated, 1:1 by volume, spray equipment with 2000 PSI fluid pressure capability. PX-3350 material, both ISo “A” Side and Resin “B” Side, should be heated between 120° – 150° F, and spray equipment generate adequate fluid pressure for proper mixing and best polymerization result.

APPLICATION EQUIPMENT:

PAXCON PX-3350 is designed to be sprayed through a high pressure impingement mixing equipment. Plural component spray equipment must have material heat-control capability, 1:1 by volume and can either be sprayed with a 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 high-pressure proportional pumping equipment.

Temperature Setting:
ISo "A" Block Heater: 140 – 160 Deg. F
Resin "B" Block Heater: 140 – 160 Deg. F
Hoses (Iso and Polyol): 140 – 150 Deg. F

Hydraulic Pressure Setting:
Equipment Hydraulic Pressure: 2,000 – 2,500 PSI

EQUIPMENT CLEAN-UP:

Spray equipment should be cleaned immediately after use following the equipment manufacturer's recommended cleaning procedures. Please refer to spray equipment operating and maintenance procedures for further details. PAXCON PX-3350 should be cleaned with environmentally safe urethane-grade cleaner. 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 permitted under local rules and regulations.

MATERIAL STORAGE:

PAXCON PX-3350 has a shelf life of 12 months from manufactured date in factory sealed containers. PX-3350 has to be stored between 65° F – 80° F. Do not expose unused materials to humid conditions; always provide air-tight resealed conditions to unused materials. With materials currently connected pump, provide as much airtight/moisture-free conditions to unused materials as possible to ensure proper chemical performance. Drums should be stored on pallet to avoid direct contact with warehouse floor/ground.

SAFETY AND HANDLING:

Please refer to MSDS for safety and handling of this material. All personnel working with this material are expected to read and understand the safety recommendations per MSDS. All personal protection equipment must be properly worn to protect worker health and safety.

CHEMICAL TECHNICAL DATA:

Mix Ratio By Volume	1A:1B
Gel Time	6-9 Sec
Tack Free Time	9-12 Sec
Viscosity (cPs) @ 77 Deg. F.	
"A" ISo Side	1000±100
"B" Resin Side	370±50
Material Density (lbs/gal) @ 77 Deg. F.	
"A" ISo Side	9.50 lbs/gal
"B" Resin Side	8.40 lbs/gal

BASIC PHYSICAL PROPERTIES:

The following test data was provided by independent third-party material test laboratories:
OCM Test Laboratories, Inc.
- ISO 17025 Certified
- American Association for Laboratory Accreditation (A2LA)

Truesdail Laboratories, Inc.
Pira International Materials Test Lab

Test Name	Test Methods	Value
Hardness Shore D	ASTM D2240	60 ± 1
Coefficient of Friction	ASTM D1894	
Static		0.305
Kinetic		0.127
Dielectric Const.	ASTM D150	3.6
Dissipation Factor	ASTM D150	0.031
Volume Resistance	ASTM D257	2.3x1014 ohm cm
DMA Test (Loss Modulus, E" Tg)	ASTM D 4065	-28oF
Elongation	ASTM D412	82%
Flexural Strength	ASTM D790	2630 PSI
Flexural Modulus	ASTM D790	0.056 MSI
Fungus Resistance Test	MIL-STD 810F	Pass
Pull-off Test – Adhesion	ASTM C297	
To Metal – No Primer		1,800 PSI
To Metal – XPM Primer		1,910 PSI
To Metal – LXSF515 Primer	1,870 PSI	
Taber Abrasion(gm Loss/1000 Cyls)	ASTM D2240	0.06980
Tear Strength	ASTM D624	497 lbs/in.
Tensile Strength	ASTM D412	2,010 PSI
Water Vapor Trans.	ASTM E96	0.499 Grains/Ft2/Hr
Methane Permeability	ASTM D1434	63 cc/m2. day

ADDITIONAL PRODUCT CERTIFICATIONS:

MIL-STD-810F – Fungus Resistance Test

CHEMICAL RESISTANCES PER ASTM D543 FOR IMMERSION IN FLUIDS METHODS:

PAXCON PX-3350 materials are immersed in the chemicals below for a period of seven days; physical properties of pre- and post-immersion were measured to quantify the changes in product physical properties.

Chemical Names	Volume Change (%)	Hardness Change (%)	longation ASTM D412 Change (%)	Tensile Strength ASTM D412 Change (%)	Recommendations
Acetic Acid 10%	6%	-13%	56%	-13%	Yes
Ammonium Chloride 30%	2%	-1%	76%	40%	Yes
Ammonium Hydroxide	2%	-1%	59%	22%	Yes
Automotive Gasoline	11%	-13%	-14%	-39%	Yes
Automotive Oil	13%	-14%	74%	45%	Yes
Aviation J.P. Fuel	8%	-8%	39%	-5%	Yes
Baking Soda 25%	3%	-4%	68%	30%	Yes
Benzene	13%	-16%	-37%	-72%	Yes
Bleach (Chloride)	2%	-7%	50%	12%	Yes
Boric Acid 3%	6%	-12%	65%	22%	Yes
Brake Fluid (DOT 3)	30%	-39%	7%	-48%	Yes-Secondary Containment
Calcium Chloride 50%	2%	-8%	71%	50%	Yes
Calcium Hypochloride 5%	4%	-5%	48%	11%	Yes
Citric Acid 10%	2%	-4%	71%	30%	Yes
Club Soda	3%	-5%	49%	13%	Yes
Cream Soda	2%	-6%	66%	22%	Yes
Crude Oil (Heating)	7%	-4%	35%	11%	Yes
Diesel Fuel	5%	-6%	48%	33%	Yes
Ethylene Glycol	3%	-7%	55%	19%	Yes
Formic Acid 10%	12%	-23%	60%	-29%	Yes-Secondary Containment
Formic Acid 5%	14%	-26%	61%	-31%	Yes-Secondary Containment
Hydraulic Fluid (Oil)	2%	-2%	45%	47%	Yes
Hydrogen Peroxide 30%	4%	-6%	55%	13%	Yes
Hydrogen Peroxide 10%	4%	-7%	80%	22%	Yes
Isopropyl Alcohol	32%	-34%	40%	-50%	Yes
Kerosene	8%	-6%	53%	9%	Yes
Lactic Acid 20%	4%	-7%	79%	18%	Yes
Lactic Acid 45%	7%	-13%	55%	5%	Yes
Methylene Chloride	12%	-22%	-51%	-84%	Yes
Mineral Spirits	4%	-1%	37%	13%	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 chemical exposure per ASTM D543. Application specific processing parameters such as temperature and operating pressure of coated objects must be considered before installing PAXCON PX-3350 coatings system.

PRODUCT USER RESPONSIBILITIES:

Users of PAXCON PX-3350 product are responsible for reading the general guidelines, product data sheets, specifications and material safety data sheets (MSDS) before using this material. Printed technical data and instructions are subject to change without notice. For additional information or for current technical data instructions, contact a PAXCON representative or visit www.PAXCON.com.

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. Uuser 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 which 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 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 FDC makes no claim that these tests or any other tests accurately represent all environments.