



Product Technical Data Sheet

LINE-X SE-BK 210

Product Manufacturer:

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

GENERAL PRODUCT DESCRIPTION:

LINE-X SE-BK 210 is a two-component, high performance aromatic polyurea/polyurethane hybrid spray elastomer system. Zero VOC (Volatile Organic Compounds), 100% solid. LINE-X SE-BK 210 offers outstanding performance and superior elastomeric protective coatings for various substrates. LINE-X SE-BK 210 is designed as a user-friendly product with built-in activator for quick cure times, and offers exceptional adhesion properties to properly prepared substrates. The high performance formulation of LINE-X SE-BK 210 produces an excellent skin formation for chemical resistances and as a moisture protection barrier.

FEATURES:

- Excellent Thermal Stability
- Low Permeability Rate
- Low Temperature Flexibility
- Good Chemical Resistance
- Seamless
- Non-Reactive

AREAS OF APPLICATIONS:

- Boat Decks
- Condenser Units
- Farm Equipment
- Garbage Containers
- Golf Carts
- House Deck Coatings
- Pick-up Truck Bed Linings
- Recreation Vehicles Fronts
- Recreation Vehicles Roofs
- Trailer Floor Coating
- Salt Spreaders
- Speaker Boxes
- Street Sweepers

- Styrofoam Encapsulation
- Van Floors
- Wall-in Coolers Protective Linings
- Walk Ways
- Wheel Chair Ramps
- Wood Signs
- And Many More...

APPLICATION:

Both Iso "A" Side and Resin "B" Side should be preconditioned between 70 – 90° F before application.

Line-X SE-BK 210 must be applied using high-pressure, plural component, heated, 1:1 by volume, spray equipment with 2000 PSI fluid pressure capability.

Line-X SE-BK 210 material both Iso "A" Side and Resin "B" Side should be heated between 120° – 160° F, and spray equipment generate adequate fluid pressure for proper mixing and best polymerization result.

APPLICATION EQUIPMENT:

LINE-X SE-BK 210 is designed to spray through a high pressure impingement mixing equipment. Plural component spray equipment must have materials heat-control capability, 1:1 by volume, can either sprayed 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 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 – 160 Deg. F

Equipment Pressure Setting:

Equipment Fluid Pressure: 2,000 – 2,500 PSI



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EQUIPMENT CLEAN-UP:

Spray equipment should be cleaned immediately right after use and be sure to follow equipment manufacturer's recommended procedures. Please refer to spray equipment operating and maintenance procedures for further details. Line-X SE-BK 210 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 of as permitted under local rules and regulations.

MATERIAL STORAGE:

Line-X SE-BK 210 has a shelf life of twelve (12) months from manufactured date in factory sealed containers. Line-X SE-BK 210 has to be stored between 65° F – 80° F. Do not expose unused materials to humid 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 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 proper worn to protect worker health and safety requirements.

CHEMICAL TECHNICAL DATA:

Mix Ratio By Volume	1A:1B
Gel Time	3-6 Sec
Tack Free Time	6-9 Sec
Viscosity (cPs) @ 77 Deg. F.	
"A" Iso Side	550±100
"B" Resin Side	1100±100
Material Density (lbs/gal) @ 77 Deg. F.	
"A" Iso Side	9.6 lbs/gal
"B" Resin Side	9.0 lbs/gal

BASIC PHYSICAL PROPERTIES:

All tests are performed by OCM Test Laboratories.

- ISO 17025 Certified
- American Association for Laboratory Accreditation (A2LA)

Test Name	Test Methods	Value
Hardness Shore D	ASTM D2240	50 ± 1
Coefficient of Friction	ASTM D1894	
Static		0.546
Kinetic		0.185
Dielectric Const.	ASTM D150	3.5
Dissipation Factor	ASTM D150	0.026
Volume Resistance	ASTM D257	2.4x10 ¹³ ohm cm
Elongation	ASTM D412	91%
Flexural Strength	ASTM D790	1,190 PSI
Flexural Modulus	ASTM D790	0.024 MSI
Fungus Test	MIL-STD 810F	Pass
Pull-off Test – Adhesion	ASTM C297	
To Metal – No Primer		1,300 PSI
To Metal – XPM Primer		1,750 PSI
To Metal – LXS F515 Primer		1,930 PSI
Taber Abrasion (gm Loss/1000 cycles)	ASTM D4060	0.1525
Tear Strength	ASTM D624	295 lbs/in.
Tensile Strength	ASTM D412	2,147 PSI
Water Vapor Trans.	ASTM E96	0.796 Grains/Ft ² /Hr

ADDITIONAL PRODUCT CERTIFICATIONS:

- MIL-STD-810F



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Chemical Resistances per ASTM D543 for immersion in fluids methods:

Line-X SE-BK 210 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



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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 Line-X SE-BK 210 coating systems.

PRODUCT USER RESPONSIBILITIES:

Users of Line-X SE-BK 210 product are responsible for reading the general guidelines, product data sheets, specifications and material safety data sheets (MSDS) before using these materials. Printed technical data and instructions are subject to change without notices. Contact your local Line-X representative or visit our website www.linex.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 users 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 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.