TECHNICAL DATA SHEET

LINE-X XS-190 AU

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PRODUCT MANUFACTURER

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GENERAL PRODUCT DESCRIPTION

LINE-X XS-190 AU is a two-component, zero VOC (volatile organic compound), 100% solids high performance polyurea hybrid spray elastomer system. LINE-X XS-190 AU offers outstanding performance and superior elastomeric protective coatings for various substrates. LINE-X XS-190 AU 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.

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. LINE-X XS-190 AU must be applied using high-pressure, plural component, heated, 1:1 by volume, spray equipment with 2,000 psi fluid pressure capability. LINE-X XS-190 AU material (both Iso "A" Side and Resin "B" Side) should be heated between 140°F to 160°F (60°C to 71°C). Spray equipment must generate adequate fluid pressure for proper mixing and best polymerization results.

APPLICATION EQUIPMENT

LINE-X XS-190 AU 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

Iso "A" Block Heater:	140°F - 160°F
Resin "B" Block Heater:	140°F - 160°F
Hoses (Iso and Polyol):	140°F - 160°F

Static Hydraulic Pressure Setting

Static 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. LINE-X XS-190 AU 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

LINE-X XS-190 AU has a shelf life of twelve (12) months from manufacture date in factory-sealed containers. LINE-X XS-190 AU 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.

CHEMICAL TECHNICAL DATA

Conditions: 77°F and 50% Rel. Humidity	
Mix Ratio by Volume	1A:1B
Gel Time	5 sec.
Tack Free Time	60 sec.
Walked on	5 mins.
Cure Time	1 hr.
Full immersion in water	1 hr.
Full physical properties	7 days
Theoretical Coverage	1mm/m2/litre
Density “A” Side (kg/L)	1:11
Density “B” Side (kg/L)	1:00
Viscosity “A” Side	680-750 cP
Viscosity “B” Side	400 cP

BASIC PHYSICAL PROPERTIES

Hardness Shore A	ASTM D2240	90
Elongation	ASTM D412	450%
Abrasion Resistance	ASTM D460-10 (CS-17 @ 1000 rpm with 1000 g weight	11 mg
Tensile Strength	ASTM D412	18.6 MPa
Tear Strength	ASTM D624	9.6 MPa
Flash Point	Pensky Martens Closed Cup	>149°C
Early Fire Hazard	AS1530 Part 3	2mm sample
Properties	Ignitability Index (0-20) Spread of Flame Index (0-10) Heat Evolved Index (0-10) Smoke Developed Index (0-10) ASTM D 1692-68	16 8-9 9-10 7 Self-Extinguish
Suitability for use with drinking water	AS 4020-2006	Passes all requirements at 5000mm 2 per litre exposure.

THICKNESS RECOMMENDATION

High abrasion resistance	>5mm
Protective coating	>3mm
Waterproofing	>2mm
Corrosion and Chemical	>3mm

PRODUCT USER RESPONSIBILITIES

Users of LINE-X XS-190 AU 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 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 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.