



Product Technical Data Sheet

LINE-X SE-500

Product Manufacturer:

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

GENERAL PRODUCT DESCRIPTION:

LINE-X SE-500 is a high-pressure, 1:1 by volume, two component, 100% high performance elastomeric polyurethane lining system. Zero VOC (Volatile Organic Compounds), 100% solid. SE-500 lining system is specially designed for exceptional chemical resistance. With its highly cross-linked formulation, it is impervious to a wide variety of commercial and industrial chemicals.

FEATURES:

- Excellent Thermal Stability
- Low Permeability Rate
- Excellent Chemical Resistance
- Seamless
- Fast Reactivity and Rapid Cure Time

AREAS OF APPLICATIONS:

- Chemical Processing Plants
- Oil /Gas Containment
- Plating
- Precious Metal Mining
- Primary/Secondary Containment

Wastewater

APPLICATION:

Both ISo "A" Side and Resin "B" Side should be preconditioned between 70^o – 90^o F before application. LINE-X SE-500 must be applied using a high-pressure, plural component, heated, 1:1 by volume, spray equipment with 2000 PSI fluid pressure capability.

SE-500 material, both ISo "A" Side and Resin "B" Side, should be heated between 120^o – 150^o F, and spray equipment generate adequate fluid pressure for proper mixing and best polymerization result.

APPLICATION EQUIPMENT:

LINE-X SE-500 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. SE-500 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:

LINE-x SE-500 has a shelf life of twelve months from manufactured date in factory sealed containers. SE-500 has to be stored between 65^o F – 80^o F. Do not expose unused materials to humid conditions; always provide air-tight resealed conditions to unused materials.



Product Technical Data Sheet

LINE-X SE-500

With materials currently connected to pumps, provide as much air-tight/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	3-5 Sec
Tack Free Time	8-10 Sec
Viscosity (cPs) @ 77 Deg. F.	
"A" Iso Side	200±20
"B" Resin Side	800±50
Material Density (lbs/gal) @ 77 Deg. F.	
"A" Iso Side	10.2 lbs/gal
"B" Resin Side	9.0 lbs/gal

BASIC PHYSICAL PROPERTIES:

Test Name	Test Methods	Value
Hardness Shore D	ASTM D2240	75 ± 5
Elongation	ASTM D412	10%
Taber Abrasion (mg Loss/1000 Cyls)	ASTM D2240	12.25
Tear Strength	ASTM D624	840 lbs/in.
Tensile Strength	ASTM D412	6,000 – 6,500 PSI
Heat Deflection Temp.	ASTM D-648-07	195°F



Product Technical Data Sheet

LINE-X SE-500

Chemical Resistances per ASTM D543 for immersion in fluids methods:

LINE-X SE-500 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	RESISTANCE RATING @25 Deg C
Acetic Acid 10%	1
Acetic Acid 2%	1
Acetic Acid 5%	1
Ammonium Chloride 24.0%	1
Ammonium Chloride 30%	1
Aqua Ammonia	1
Automotive Oil	1
Aviation Fuel	1
Baking Soda 25%	1
Calcium Chloride 50%	1
Calcium Hypochlorite 5%	1
Club Soda	1
Cream Soda	1
Diesel Fuel	1
Ethylene Glycol	1
Hydraulic Oil	1
Hydrochloric Acid 45%	1
Hydrochloric Acid 5.0%	1
Kerosene	1
Mineral Spirits	1
Phosphoric Acid 25%	1
Potassium Hydroxide 50%	1
Saline Solution 30%	1
Sea Water	1
Sodium Carbonate 10%	1
Sodium Hydroxide 50%	1
Sodium Sulfate 20%	1
Sodium Sulfate 30%	1
Sugar Solution 30%	1
Sulfuric Acid 10%	1

Sulfuric Acid 25%	1
THIO-SUL	1
Turpentine	1
Ammonia 7.5%	2
Ammonium Hydroxide	2
Bleach (Chloride)	2
Boric Acid 4%	2
Citric Acid 10%	2
Formaldehyde 37%	2
Formic Acid 2%	2
Hydrogen Peroxide 10%	2
Lactic Acid 45%	2
Nitric Acid 10%	2
Phosphoric Acid 50%	2
Tannic Acid 12.0%	2
Brake Fluid (DOT 3)	3
Formic Acid 5%	3
Sulfuric Acid 50%	3
Xylene (Xylol)	4
1,1,1 Trichloroethylene	5
Acetic Acid 50%	5
Acetone	5
Benzene	5
Chromic Acid 30%	5
Formic Acid 10%	5
Isopropyl Alcohol (IPA)	5
Methanol	5
Methyl Ethyl Ketone (MEK)	5
Methylene Chloride	5
Rubbing Alcohol	5
Toluene	5

- 1 – Excellent
- 2 – Good
- 3 – Fair
- 4 – Moderate
- 5 – Not Recommend



Product Technical Data Sheet

LINE-X SE-500

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 SE-500 coatings system.

PRODUCT USER RESPONSIBILITIES:

Users of LINE-X SE-500 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 LINE-X Industrial Coatings Division representative or visit www.line-xicd.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. 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.