



LINE X XS-100

A Specially Formulated Sprayable Liner Resin Made out of
POLYUREA AND POLYURETHANE SYSTEM

DESCRIPTION:

LINEX XS-100 is a two-component spray in place flexible 100 % solids thermoplastic (TPU) Polyurethane and polyurea system . It is designed for processing through LINEX Dispensing Equipment . It is a fast set, fast cure, textured surface , multi – purpose material, designed for commercial and industrial applications. It exhibits excellent adhesion to most materials including Steel Concrete , Wood , Fiber glass, Epoxies as well as LINEX Materials . It is suitable as a Protective– Abrasive – Impact Liner for Pipelines, Tanks , industrial Floors, Sea Water Vessels, Helicopter Decks, Trucks, Buses and Trains and

APPROVED FOR DRINKING WATER.

FEATURES:

- Continuous, seamless and monolithic Liner for flat, curved and sharp cornered surfaces.
- Fast set 3-5 sec at any thickness without intervals starting with 250 to 50,000 μ m.
- Fast cure for service at ambient temperature after 24 hours.
- No volatile organic content , 100 % solids , environmentally friendly .
- High Resistance to Sun UV and severe weather conditions .
- High Resistance to broad range of Chemicals ,Sea Water, Crude Oil and Sewage.
- Outstanding Abrasion resistance , Impact strength , Tensile Strength , Tear strength and high Elongation percent .
- High electric resistance (15 kw @ 1, 500 μ m) High Di – Electric Strength and approved Cathodic Disbondment for Petroleum Applications .

PHYSICAL PROPERTIES (-40 up to 120 °C)

Properties @ 24 ° C	ASTM Test	Value	Unite
Density	D- 1622	1.123	Gm / cm ³
Permeability	E - 96	None	Grain / hr. / m ²
Hardness	D- 2240	65 / 45	Shore (A) / Shore (D)
Abrasion Resistance	D - 4060	0.1 %	Per 1000 cycles
Tensile Strength	D - 2370	13.3	N / mm ²
Shear Strength	D – 732	13.4	N / mm ²
Elongation	D - 2370	180.0 %	Percent
Tear Resistance(pli)	D - 1004	176.0	N (load)
Impact Strength	G - 14	Pass	
Adhesion	D - 4541	25.0	Mpa
Holiday	D - 5162- 91	>3.0	KV
Pin hole	DIN 30670	Free	
Cathodic Disbondment		4.09	mm Diam

Colors : Black , Natural (creamy) or Pigmented using LINEX Pigments by adding And By mixing with the B component up to the ratio 1 : 15

Surface Finish : Glossy Orange Peel or Textwed (Medium or Anti Skid)



Good TO Exellent CHEMICAL RESISTANCE WITH

1	Ammonium Chloride	30 %	E	15	Sugar Solution	30 %	E
2	Brine Solution	30 %	E	16	Sulfuric Acid	25 %	E
3	Caustic Soda	30 %	E	17	Water De-ionized		E
4	Calcium Hypochloride	5 %	E	18	Acetic Acid	10 %	G
5	Citric Acid	10 %	E	19	Ammonia (conc)		G
6	Crude Oil		E	20	Bleach (chloride)		G
7	Ethyl Alcohol	20 %	E	21	Diesel		G
8	Hydrochloric Acid	25 %	E	22	Hydrogen Peroxide	30 %	G
9	Hydraulic Fluid		E	23	Gasoline (leaded)		G
10	Potassium Hydroxide	50 %	E	24	Kerosene		G
11	Sea Water		E	25	Nitric Acid	5 %	G
12	Sodium Chloride Solution	20 %	E	26	Phosphoric Acid	50 %	G
13	Sodium Hydroxide	50 %	E	27	Sodium Carbonate	10 %	G
14	Soap Solution	5 %	E				

LIQUID CHIMICAL PROPERTIES AT 24 °C (75 °F)

Property	ASTM Specs	Value	Unit
Viscosity , component A	D - 1638	600 ±100	cps.
Viscosity , component B	D - 1638	1100 ± 100	cps.
Specific Gravity , com. A	D - 1638	1.15	Gr./ cc
Specific Gravity , com.B	D - 1638	1.08	Gr./ cc
Mixing Ration A : B		50 : 50	By Volumm

RECOMMENDED USES :

Recommended for use with the following Mediums and Applications

MEDIUMS :

CRUDE OIL , KYROSINE, LUBURICATION OIL , SEWAGE , SEA WATER , DIESEL, DRINKING WATER , MEATS , POULTRY , Other FOODS and CHEMICALS .

APPLICATIONS :

- Internal and External Protective Coating of Pipes.
- Lining of Tanks, Tankers and Tanker Trucks.
- Lining of Grain Silos .
- Lining of Refrigerated Stores and Trucks.
- Protective Coating for Underground Foundations.
- Industrial Floors, Parking Garages and Helicopter Decks.
- Water Proofing of Roofs, Swining Pools.
- Secondary Containment for Tanks, Lakes, Rivers and Lagoons.
- Walkways, Top Floors of Ships, Submarines and Fishing Boats.
- Floors, Roofs and Luggage Compertment for Buses and Trains.
- Bed – Liner for Trucks and Loaders.
- External Coating for Sea – Land Vehicles.

