



SOLUTIONS GUIDE

INDUSTRIAL | AUTOMOTIVE | MARINE | AGRICULTURAL | PROTECTIVE COATINGS



WHAT IS LINE-X?

LINE-X is a professionally applied, high-performance, spray-on protective coating. Since 1993, LINE-X has been a staple of the automotive aftermarket as a premier spray-on truck bedliner, and has since expanded to offer a wide variety of other products and services. Today, LINE-X specialises in multiple sectors, including:

- INDUSTRIAL
- AUTOMOTIVE
- AGRICULTURAL
- MARINE
- MILITARY/DEFENCE



HOW IS LINE-X USED?

LINE-X can be applied to the surface of just about anything. LINE-X coatings form permanent bonds at the molecular level, giving them excellent adhesion to a wide variety of surfaces. Whether applied to metal, fibreglass, concrete or wood, LINE-X can absorb impact and resist damage by remaining both flexible and strong, without losing adhesion.

PROTECTS A WIDE VARIETY OF SURFACES

- WOOD
- METAL
- MASONRY
- ALUMINIUM
- CONCRETE



- CEMENT
- FIBREGLASS
- STYROFOAM
- DRYWALL
- MUCH MORE!

SCIENCE BEHIND LINE-X PERFORMANCE

LINE-X combines specialised equipment with extensive product development to yield the right materials, products and procedures to meet virtually any demand. After decades of research, LINE-X has created a comprehensive coatings portfolio that includes polyurethanes, polyureas, aliphatic and hybrid coatings.

Each coating differs at a molecular level resulting in distinct physical characteristics that are ideal for certain applications and industries. Tensile strength, elongation, hardness and UV stability are all factors that influence product performance and durability.

PHYSICAL PROPERTIES

- NO VOCs, 100% SOLIDS
- FAST CURE TIMES, CAN BE SPRAYED VERTICALLY WITHOUT DRIPPING
- HIGH “SHORE D” HARDNESS RATING
- TENSILE STRENGTHS UP TO 6,600 PSI
- HIGH CHEMICAL RESISTANCE
- UV STABILITY
- TEAR STRENGTHS UP TO AND EXCEEDING 780 LBS/IN

PROVEN PROTECTION FOR OVER 20 YEARS

LINE-X has been put to the test both in the lab and in harsh, real-world conditions. These are the areas in which LINE-X outperforms the rest.

CORROSION PREVENTION

LINE-X coatings are designed to create an impenetrable barrier between valuable equipment and nature's harshest elements, such as high humidity, salt water or extreme temperature changes.

ABRASION AND IMPACT PROTECTION

Laboratory tests demonstrate excellent levels of abrasion and impact resistance under just about any severe-use condition. LINE-X outperformed all other leading materials, including carbon and stainless steel.

SEAMLESS BARRIER

LINE-X coatings are ideal for secondary containment applications, providing a seamless protective barrier ideal for areas in which petroleum products, chemicals or harmful environmental contaminants are stored.

ENHANCED DURABILITY

LINE-X permanently bonds to most materials at the molecular level, creating a unique composite unlike any other. Its physical characteristics vary by chemical make-up but each LINE-X coating is engineered to find the perfect balance of strength and flexibility – the secret combination to a highly durable coating.

INDUSTRIAL COATINGS: ROOFING



LINE-X creates a seamless, crack-bridging seal that prevents moisture from penetrating the roof. Moisture penetration leads to devastating consequences such as concrete corrosion, weakening of the buildings structure, interior damage and the growth of mildew, which causes a health and safety concern for the occupants of the building. Leaking roofs can become a thing of the past with the help of LINE-X roofing applications.



LINE-X can keep the most complex arrangement of slopes, gables and hips completely sealed from water ingress. Area's that were once prone to leaking, such as sky lights and air-conditioning shafts, can be confidently protected from future leaks.

Just like a liquid membrane, LINE-X's spray applied application simply follows the surface contours and creates a seamless, jointless water-tight seal.

BENEFITS:

- FAST RETURN TO SERVICE
- LOAD-BEARING IN 1HR
- COMPLETE SEAL OF UNDER-CUTS AND COMPLEX SHAPES
- GREAT ADHESION TO THE ROOF
- CRACK-BRIDGING - 400% ELONGATION
- HIGH RESISTANCE TO HYDROLYSIS AND AGING
- ENVIRONMENTALLY SAFE

IT'S ALL ABOUT PREPARATION

LINE-X is applied by our approved network of mobile applicators who know what it takes to do the job right, from initial preparation down to the final coat of LINE-X.



1
Make sure surface is clean, dry and free from oil and fatty residues.



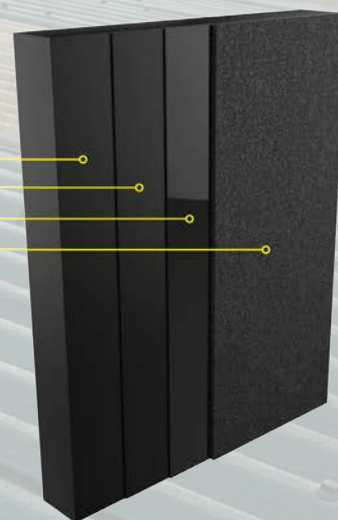
2
Complete adhesion between sheets and the substrate.



3
Prime with LINE-X approved primer - between 0.05 - 0.10 kg/m2.



4
Spray LINE-X XS-101 to 2mm. Adhesion tests to be performed prior to completing application.



INDUSTRIAL COATINGS: SECONDARY CONTAINMENT



LINE-X stands out as one of the most competent lining systems for secondary containment. LINE-X's chemical resistance, durability, crack-bridging and seamless application makes it a top choice for industries who are having to provide protection to their secondary containment assets. LINE-X is tolerant to moisture, allowing our applications to take place during adverse weather conditions where other conventional materials come up short.



SEAMLESS PROTECTION ON COMPLEX STRUCTURES

LINE-X is broadly utilised for surface protection against chemicals, abrasion and water-ingress as well as offering immense durability, excellent crack-bridging properties and seamless seal.

BENEFITS:

- FAST RETURN TO SERVICE
- WATER-TIGHT SEAL
- SEAMLESS PROTECTION
- GREAT ADHESION TO CONCRETE
- CRACK-BRIDGING - 400% ELONGATION
- ENVIRONMENTALLY SAFE

IT'S ALL ABOUT PREPARATION

LINE-X is applied by our approved network of mobile applicators who know what it takes to do the job right, from initial preparation down to the final coat of LINE-X.



1
Concrete pre-treated
to CSP 3-6



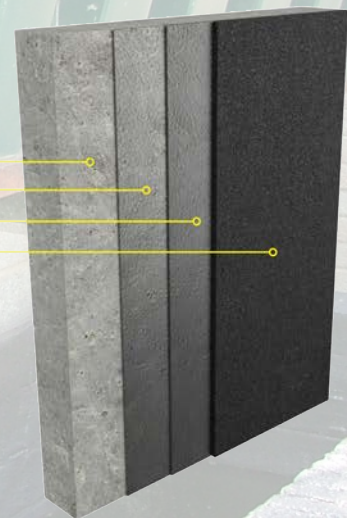
2
LINE-X approved
primer: 0.3-0.5 kg/m²
thickness



3
LINE-X approved
primer (2nd wet coat)
& oven-dried quartz-
sand approx 1kg/m².



4
LINE-X XS-101:
2.0-2.5mm thickness



INDUSTRIAL COATINGS: CAR PARK DECKS



Multi-story car park decks are at risk of concrete corrosion when exposed to water-ingress. A poorly sealed car park deck will have a reduced life span, which could result in very costly repairs.

Sealing the top deck with LINE-X's durable, seamless membrane will create a highly abrasion-resistant watertight barrier, protecting the structural integrity of the concrete.



400% ELONGATION, WATER-TIGHT, TOUGH!

LINE-X is a stand-out amongst the most competent materials for this type of application. It is broadly utilised for surface protection against chemicals, abrasion and water-ingress as well as offering immense durability and excellent crack-bridging properties

BENEFITS:

- FAST RETURN TO SERVICE
- LOAD-BEARING IN 1HR
- COMPLETE SEAL OF UNDER-CUTS AND COMPLEX SHAPES
- GREAT ADHESION TO CONCRETE
- CRACK-BRIDGING - 400% ELONGATION
- HIGH RESISTANCE TO ABRASIONS AND TYRE FRICTIONS
- ENVIRONMENTALLY SAFE

IT'S ALL ABOUT PREPARATION

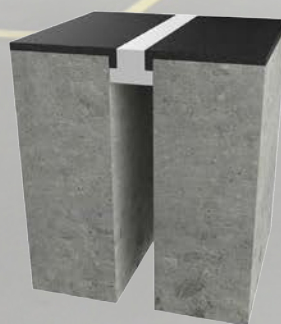
LINE-X is applied by our approved network of mobile applicators who know what it takes to do the job right, from initial preparation down to the final coat of LINE-X.



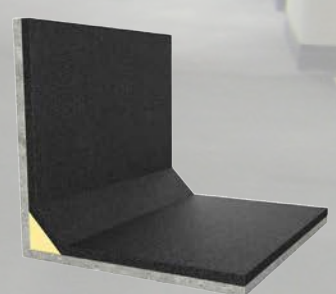
Cracks with movement under 2mm are sprayed over directly



If expected movement is greater than 2mm, then decouple with plastic strip that is 4x the original joint size



Expansion joints and areas expecting far greater movement are treated with joint sealers. These areas are never directly sprayed over.



When faced with 90° angles, our applicators create an inside radius to approx. 135°

INDUSTRIAL COATINGS: LOADING BAYS



Loud bangs, noisy vibrations and the deafening tones of loading and unloading cargo is enough to drive anyone crazy! When high noise levels of a short duration are generated on a regular basis, they have to be controlled not to exceed 60 dB in accordance with the recommendations of World Health Organisation (section 3.5).

LINE-X's sound absorbing properties have an absolute noise level of 54 db when sprayed at the desired 5mm thickness.



REDUCED NOISE LEVELS, LONG-LIFE PROTECTION AND EASY TO CLEAN

LINE-X offers excellent abrasion resistance, chemical resistance to cleaning agents, extremely easy to clean and fantastic noise absorbing capabilities. As well as all these great features, LINE-X's fast gel time offers an incredibly quick return to service.

BENEFITS:

- FAST RETURN TO SERVICE
- SOUND ABSORBING
- CHEMICAL RESISTANT
- EXTREMELY DURABLE
- LONG-LIFE PROTECTION
- SIMPLE TO CLEAN
- ENVIRONMENTALLY SAFE

IT'S ALL ABOUT PREPARATION

LINE-X is applied by our approved network of mobile applicators who know what it takes to do the job right, from initial preparation down to the final coat of LINE-X.

1

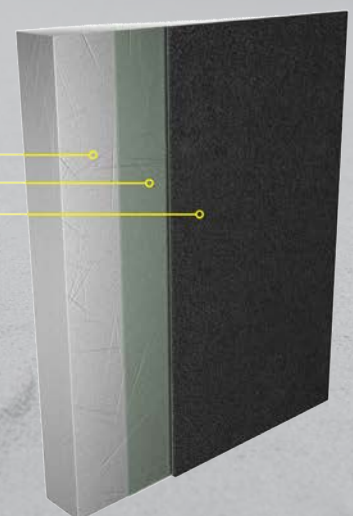
Remove all contaminations and create a surface profile by abrading or grit blasting.

2

Use LINE-X approved primer to 12-25 micron. Metallic surfaces include stainless steel, aluminium and galvanized steel.

3

Spray LINE-X XS-101 to required thickness



OIL & GAS EQUIPMENT • SECONDARY CONTAINMENT •
HEAVY MACHINERY • ROOFING • PIPELINES • STORAGE TANKS

INDUSTRIAL COATINGS: OIL AND GAS



The offshore industry demands serious corrosion protection. Constant wear, wave strokes, chemical influences and extreme weather conditions are just some of the parameters making it hard to find durable paint or corrosion protection. Furthermore, the offshore industry is often characterised by constricted working conditions making prolonged maintenance tasks complicated. The ideal solution is a protective coating that easy to apply, cures rapidly and can stand up to the rigorous demands of the industry.



OIL AND GAS

LINE-X's pure polyurea materials are being utilised within the offshore industry. LINE-X is applied by a specialised high-pressure spray system, resulting in a dense and jointless membrane, capable of adhering to aluminium, steel, wood, reinforced concrete, glass fibre, foam and other materials.

BENEFITS:

- WATERTIGHT SEAL
- HEAVY AND FINE TEXTURE FINISHES
- EXTREMELY DURABLE
- TOUGH IMPACT AND ABRASION RESISTANCE
- CORROSION PREVENTION
- SEAMLESS MEMBRANE



OIL & GAS EQUIPMENT • SECONDARY CONTAINMENT •
HEAVY MACHINERY • ROOFING • PIPELINES • STORAGE TANKS

AUTOMOTIVE COATINGS: BEDLINERS



LINE-X Spray-On Bedliners consistently receive top marks for customer satisfaction. Each and every LINE-X applicator sprays the highest quality, toughest bedliners that we can engineer. LINE-X bedliners are guaranteed not to crack, bubble or flake. That's why the name LINE-X has become synonymous with toughness. When you're looking for durability, function and value, LINE-X's proven formula is what you need.



BENEFITS:

- PREVENTS LEAKS, RUST, CORROSION
- NO CRACKING, BUBBLING OR FLAKING – GUARANTEED
- ENVIRONMENTALLY FRIENDLY – VOC FREE
- PRODUCT VARIETY – UV PROTECTION, CUSTOM COLOUR OPTIONS, SUPERIOR TOUGHNESS
- TOUGH AND DURABLE TO ABSORB IMPACT AND RESIST ABRASION
- RESISTANT TO MOST COMMON CHEMICALS
- PERMANENT BOND, NO LOST CARGO SPACE
- REPAIRABLE
- TESTED FOR QUALITY VIA MULTI-POINT INSPECTION



AUTOMOTIVE COATINGS: VAN LINING



From one van to a fleet of vans, LINE-X spray-on van linings offers unrivalled protection to keep your vehicle looking and performing great.

Made for service vans that are used in the field day-in and day-out, LINE-X offers greater durability and corrosion resistance than typical automotive paint. Load areas sprayed with LINE-X can handle the abuse of being repeatedly loaded and unloaded with equipment and supplies.



JET-WASHABLE LOAD AREA

With a LINE-X spray-on van lining you can jet-wash your load area with no risk of damage, making it quick and easy to clean.

BENEFITS:

- JET-WASHABLE AND STEAM CLEAN FRIENDLY
- RESISTS STAINING FROM HARSH CHEMICALS
- PREVENTS LEAKS, RUST, AND CORROSION
- ENHANCED DURABILITY AGAINST IMPACT AND ABRASION
- WILL BOND DIRECTLY TO METAL OR ON TO EXISTING PLY-LINE
- FAST RETURN TO SERVICE



AUTOMOTIVE COATINGS: ACCESSORY & EXTERNAL COATING



LINE-X has a proven track record of being tough, and for years it's protected the load areas of pick-ups and work vans. It's been so successful that people have started to protect their accessories and in some cases they have completely encapsulated their entire vehicle. LINE-X spray-on coatings can be seen on bumpers and grilles, winch plates, bull bars, side steps, roof racks, and more.



WHY LINE-X THE EXTERIOR?

The fantastic protective qualities of LINE-X adds another level of protection to your vehicle. It has high abrasion resistance to repel scratches and superior tensile strength to guard against impact damage. If you add on the fact that it's impervious to road salt, you can see why it makes a lot of sense to encapsulate the entire vehicle.

BENEFITS:

- WATERTIGHT TO PREVENT CORROSION
- HEAVY AND FINE TEXTURE FINISHES
- PROTECTION FROM SCRATCHES AND DOOR DINGS
- TOUGH IMPACT AND ABRASION RESISTANCE
- CORROSION PREVENTION
- ADHERES TO EVERY CURVE AND CONTOUR OF SURFACE



PROTECTIVE COATINGS: THEME PARK / FILM PROPS



There is no limit to what can be designed, created and sprayed with LINE-X. LINE-X protective coatings provide incredible strength and durability to foam structures allowing creations to be fully interactive and extremely life-like representations of real or imagined scenes. LINE-X has been utilised in top theme parks across the globe.



LIFE LIKE SCULPTURES

Most of the creations are constructed from EPS (structural foam), sprayed with a light coloured LINE-X and then custom painted to give incredibly life-like appearance.

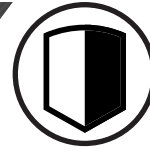
BENEFITS:

- INCREASES STRUCTURAL PROPERTIES
- AVAILABLE IN A FIRE RETARDANT VERSION
- PREVENTS DAMAGE
- WATERTIGHT



THEME PARK AND FILM PROPS • SPEAKER CABINETS •
METAL FABRICATION • AND MORE

PROTECTIVE COATINGS: METAL FABRICATION



Metal fabricators are turning to LINE-X as an alternative to galvanising. By applying LINE-X to the fabricated steel you are able to offer prevention against rust and corrosion along with cosmetically pleasing looks. LINE-X is available in virtually any colour so fabricated items can be customised to meet individual requirements. LINE-X offers a great alternative to paints, powder coat and galvanising. The fact that LINE-X is touch dry in 3 to 5 seconds and can be handled almost immediately makes it an obvious choice for manufacturers where the turnaround time for projects is paramount.



ENDLESS POSSIBILITIES

LINE-X can be used for handrails, gates, fences, railings, poles and so much more. The possibilities really are endless!

BENEFITS:

- FAST TURN-AROUND TIME
- PREVENTS CORROSION
- VARIOUS THICKNESS AVAILABLE



THEME PARK AND FILM PROPS • SPEAKER CABINETS •
METAL FABRICATION • AND MORE

PROTECTIVE COATINGS: AGRICULTURAL



Farmers rely on their equipment to maximise efficiency. Large scale farming operations utilise massive, expensive machinery to ensure high product yield. LINE-X provides protective coatings solutions that avoid down-time, extend machine life, increase productivity and lower operating costs by protecting valuable parts and equipment. Safeguarding crucial equipment and machinery offers valuable savings for mid-sized and small-scale farming operations as well.



NUMEROUS APPLICATIONS

Common application that truly benefit from LINE-X protection are: livestock trailers, animal pens, tractors, silos, crop sprayers, milk parlours, spreaders, feed storage, potato rollers and more!

BENEFITS:

- PROTECT HEAVY FARM EQUIPMENT
- EXTEND LIFESPAN OF ESSENTIAL TOOLS AND MACHINERY
- SAFE AROUND CROPS AND ANIMALS
- SEAL BUILDINGS, SILOS, BARNES
- MINIMISE DOWNTIME
- RESISTANT TO CHEMICALS FOUND IN PESTICIDE AND ANIMAL WASTE
- FAST TURN AROUND TIME



AGRICULTURAL • THEME PARK AND FILM PROPS •
METAL FABRICATION • AND MORE

PROTECTIVE COATINGS: MARINE



The marine environment offers a unique challenge when it comes to protecting against the destructive nature of salt and water. LINE-X is the perfect choice if you want an airtight and watertight seal, and is unrivalled with its protective qualities against rust, abrasion, and impact. LINE-X offers a reduction in surface slippage, and even in deep sea environments where sunlight is intense LINE-X have solutions that resist fading and discolouration while staying cool to the touch.



PROTECTION 24/7

Rust and corrosion never sleep, that's why marine maintenance is a constant effort. Why not let LINE-X shield your investment from damaging environmental forces all day, every day?

BENEFITS:

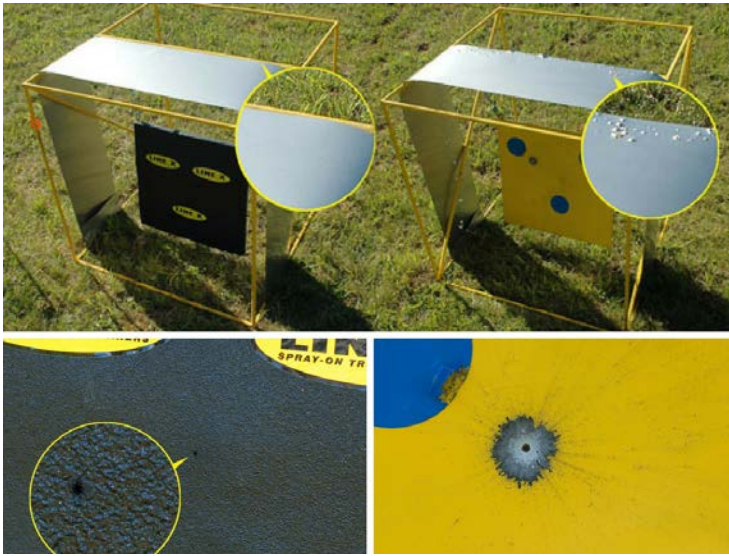
- REDUCE MAINTENANCE COST AND TIME
- FAST TURNAROUND TIME
- FLEXIBILITY TO ALLOW FOR MOVEMENT
- TOUGH IMPACT AND ABRASION RESISTANCE
- PREVENTS LEAKS, RUST, AND CORROSION
- DRIES IN SECONDS!
- FACTORY FINISHED LOOK
- SLIP-RESISTANCE



MILITARY/DEFENCE COATINGS: SPALL LINING



PAXCON by LINE-X (PX-2100) is a spray applied coating that can be applied to Dyneema® panels, armoured vehicles, breastplates and other military equipment to prevent spalling from gun fire. PAXCON PX-2100 was developed to absorb the impact from projectiles, therefore stopping both the projectile and the armour plating from spalling. PAXCON PX-2100 is a polyurethane hybrid material that has received certificated testing by H.P White Labs.



SPALL PROTECTION

PAXCON PX-2100 is being used in conjunction with armoured panels for breast plates, gun turrets, military vehicles, seat shields and more.

BENEFITS:

- PREVENTS FRAGMENTATIONS WHICH CAN CAUSE SERIOUS INJURY OR DEATH
- PAXCON BY LINE-X CAN BE SPRAYED OVER VIRTUALLY ANY SURFACE HARD ENOUGH TO CAUSE A PROJECTILE TO SPALL, SUCH AS ALUMINUM, CERAMIC, OR STEEL.



MILITARY/DEFENCE COATINGS: BLAST MITIGATION



PAXCON by LINE-X (PX-3350) is utilised by defence agencies for blast mitigation. It is a spray coating that is applied to walls and buildings in danger of being subjected to a bomb blast. PAXCON coated walls stay together due to their ability to flex. This ability to flex allows PAXCON coated walls to withstand explosions far greater than a normal uncoated wall. PAXCON by LINE-X coatings are currently protecting military, civilian and government buildings around the world including the US Pentagon and buildings through out the UK.



BLAST PROTECTION 24/7

Air Force Research Laboratory tests have provided evidence that PAXCON PX-3350 coated walls can reduce the stand off distance by over 50%.

BENEFITS:

- INCREDIBLY HIGH TENSILE AND TEAR STRENGTH
- PAXCON MATERIAL CAN WITHSTAND EXPLOSIONS UP TO 20 TIMES GREATER THAN A NORMAL, UNCOATED WALL
- GREAT ADHESION TO WOOD, STEEL, PLASTERBOARD, CONCRETE, BRICK, BLOCK AND MORE



Unprotected Wall



PAXCON protected Wall

BLAST MITIGATION

PRODUCT LINE: XS-101: PURE POLYUREA

XS

LINE-X XS-101 is our newest addition to the LINE-X portfolio. XS-101 is a specially formulated pure polyurea that comes with CE certificated systems for use as a concrete membrane. XS-101 is broadly utilised for surface protection against chemicals, abrasion and water-ingress as well as offering immense durability, excellent crack-bridging properties and seamless seal. This makes XS-101 an ideal solution for secondary containment, bund lining, tank lining, car deck protection and roofing.


As well as CE certification, XS-101 hosts a broad spectrum of certification and approvals for roofing applications, crack-bridging capabilities, sound dampening and storage tanks.

CORE ADVANTAGES:

- Fast return to service
- Water-tight seal
- Seamless protection
- Crack-bridging
- CE Certified
- Environmentally safe

GREAT ADHESION TO:

- Concrete
- Wood
- Metal
- Bitumen
- PVC membrane
- Fibreglass
- Spray-foam

	
1119	
<small>IXS (Netherlands) BV, LINE-X of Europe, Strawinskyalaan 3127- Atrium 8th, 1077 ZX Amsterdam, Netherlands</small>	
10	
1119 – CPD - CE2+003 EN 1504-2	
surface protection products coating	
Impact resistance:	Class III
Adhesion strength by pull off test:	≥ 2,0
Capillary absorption and permeability	< 0,1
Resistance to severe chemical attack Aqueous solutions of organic acids up to 10%	Class II
Permeability to CO ₂	> 50
Abrasion resistance	< 3
Permeability to water vapour	Class I
Dangerous substances comply with 5.4	

CHEMICAL TECHNICAL DATA

Mix Ratio by Weight	100 : 112 (Resin comp : Iso comp)
Mix Ratio by Volume	100 : 100 (Resin comp : Iso comp)
Gel Time *	5 – 7 seconds
Tack Free Time **	20 – 25 seconds
Recoat Window	1 hour
Return to Service	24 hours

* Measured during application with high pressure spraying equipment under laboratory conditions at 20°C.
** Measured during application with high pressure spraying equipment under laboratory conditions at 20°C with an application thickness of 2 mm on a non-insulating substrate.

BASIC PHYSICAL PROPERTIES

TEST NAME	TEST METHOD	VALUE
Density (g/cm ³)	DIN 53 420	1,00
Hardness, Shore A	DIN ISO 7619-1	92 – 95
Hardness, Shore D	DIN ISO 7619-1	38 – 42
Fire Performance	EN 13501-1	CFL – s1
Tensile Strength (N/mm ²)	DIN 53 504	21
Elongation at Break (%)	DIN 53 504	425
Tear Strength (kN/m)	DIN 53 515	58
Water Vapour Permeability g mm/(m ²)(24h)	DIN 53 122	16
Methane Permeability cm ³ mm/(m ²)(24h)	DIN 53 380	50
Taber Abrasion (mg) Weight loss, thickness ± 4mm, H18 wheel, 1000 gms, 1000 cycles	ASTM D 1044	140
Volume Resistivity (Ωcm)	ISO 3915	1,2 E+12
Surface Resistivity (Ω)	IEC 60093	6,8 E+13

Note: The mechanical properties were measured by use of test specimens which were sprayed with a two-component machine and stored for 7 days under standard climatic conditions.

PRODUCT LINE:

XS-100 EU: POLYUREA/POLYURETHANE HYBRID



LINE-X XS-100, a polyurea/polyurethane hybrid, offers outstanding performance and superior elastomeric protective coatings for various substrates. XS-100 offers exceptional adhesion properties on properly prepared substrates. The high performance formulation of XS-100 produces an excellent skin formulation for chemical resistance and moisture protection.

CORE ADVANTAGES:

- Fast return to service
- Water-tight seal
- Seamless protection
- Excellent thermal stability
- Good chemical resistance
- Environmentally safe

GREAT ADHESION TO:

- Wood
- Metal
- Fibreglass
- Spray-foam

POPULAR APPLICTIONS:

- Automotive load lining
- Speaker cabinets
- Fiberglass rehabilitation
- Theme park/film props
- Boat decks
- Flight cases

CHEMICAL TECHNICAL DATA

Mix Ratio by Weight	100 : 110 (Resin comp : Iso comp)
Mix Ratio by Volume	100 : 100 (Resin comp : Iso comp)
Tack Free Time (25°C)	5 – 7 (Method G 132-01)

BASIC PHYSICAL PROPERTIES

TEST NAME	TEST METHOD	VALUE
Density (g/cm ³)	DIN 53 420	1,00 - 1,15
Hardness, Shore D	DIN ISO 7619-1	57
Tensile Strength (N/mm ²)	DIN 53 504	18.6
Elongation at Break (%)	DIN 53 504	100
Tear Strength (kN/m)	DIN 53 515	37
Abrasion (mm ³)	DIN ISO 4649	300

Note: The mechanical properties were measured by use of test specimens which were sprayed with a two-component machine and stored for 7 days under standard climatic conditions.



PRODUCT LINE:

XS-350 EU: PURE POLYUREA

XS

LINE-X XS-350 is a two-component, 100% high performance aromatic polyurea spray elastomer system containing no VOC's (Volatile Organic Compounds), 100% solid. XS-350 offers outstanding performance and superior elastomeric protective coatings for various substrates. XS-350 is designed as a user-friendly product for moisture insensitive applications because of its pure polyurea chemistry and offers exceptional adhesion properties for properly prepared substrates. The high performance formulation of XS-350 produces an excellent skin formation for chemical resistance and moisture protection.

CORE ADVANTAGES:

- Fast return to service
- Water-tight seal
- Seamless protection
- Excellent thermal stability
- Excellent chemical resistance
- Environmentally safe

GREAT ADHESION TO:

- Wood
- Metal
- Fibreglass
- Spray-foam

CHEMICAL TECHNICAL DATA

Mix Ratio by Weight	100 : 114 (Resin comp : Iso comp)
Mix Ratio by Volume	100 : 100 (Resin comp : Iso comp)
Gel Time*	4 – 6 seconds

* Measured during application with high pressure spraying equipment under laboratory conditions at 20°C.

BASIC PHYSICAL PROPERTIES

TEST NAME	TEST METHOD	VALUE
Density (g/cm ³)	DIN 53 420	1,00
Hardness, Shore A	DIN ISO 7619-1	95
Hardness, Shore D	DIN ISO 7619-1	60
Tensile Strength (N/mm ²)	DIN 53 504	19
Elongation at Break (%)	DIN 53 504	160
Tear Strength (kN/m)	DIN 53 515	70
Abrasion (mm ³)	DIN ISO 4649	75

Note: The mechanical properties were measured by use of test specimens which were sprayed with a two-component machine and stored for 7 days under standard climatic conditions.



PRODUCT LINE: ULTRA: THIN-FILM POLYASPARTIC



LINE-X ULTRA is a low odor, two component polyaspartic apliphatic spray coating that is UV stable. This product can be used as a topcoat for polyurea and polyurethane systems on properly prepared substrates or as a stand-alone coating. LINE-X ULTRA is 100% solids with zero VOCs (Volatile Organic Compounds) and superior physical properties. LINE-X ULTRA is an environmentally friendly product with excellent colour, gloss retention and UV stability.

LINE-X ULTRA can be sprayed thinner than standard elastomer coatings while still maintaining superior strength and reliability. With an application thickness up to 500 microns (0.5mm), LINE-X ULTRA competes with traditional powder coating and industrial paint methods – with superior results.



PAINT:
(FAILED AT 4.5 Newton Meters)

POWDERCOAT:
(FAILED AT 4.5 Newton Meters)

LINE-X ULTRA:
(NO FAILURE AT 36 NEWTON METERS – MAXIMUM IMPACT TESTED)

In impact tests, LINE-X ULTRA outperformed industrial paint and powder coat.

CORE ADVANTAGES:

- UV stability
- Thin-build product
- 140% Elongation
- Environmentally safe

GREAT ADHESION TO:

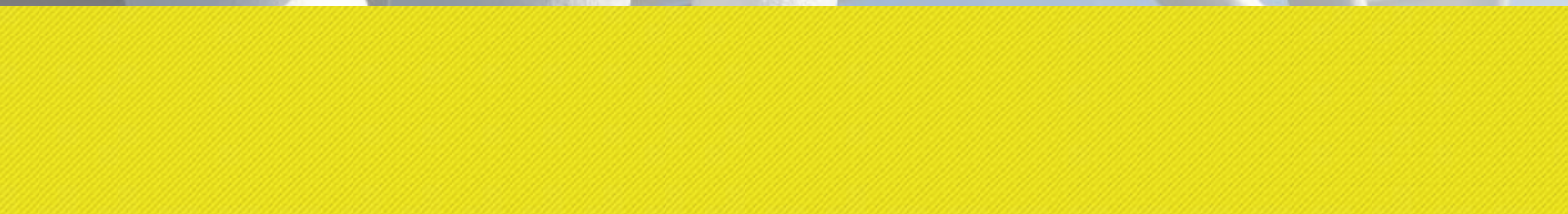
- Aluminium
- Steel
- Fibreglass
- Polyurea

CHEMICAL TECHNICAL DATA CONDITIONS: 75°F AND 50% REL. HUMIDITY

Mix Ratio by Volume	1A:1B
Tack Free Time over hot LINE-X:	3-6 minutes
Recoat Window over LINE-X:	1 hour
Return to service:	24 hours
Gel Time*	45 sec.

BASIC PHYSICAL PROPERTIES

TEST NAME	TEST METHOD	VALUE
Taber Abrasion (mg loss/1000 cycles)	ASTM D4060	12.31
Hardness, Shore D	ASTM 2240	54D
Tensile Strength	ASTM D412	2100
Elongation at Break (%)	ASTM D412	140%
QUV Top Coat	ASTM G154	Delta E<2.0 @3000 hrs
Gloss Retention		D523 81+





LINE-X

UK@LINEX.COM | WWW.LINE-X.CO.UK
01271 344 000

