



FEDERAL INDUSTRIAL LININGS

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TECHNICAL DATA SHEET

FEDLINE XTREME 201 POLYURETHANE

DESCRIPTION

FedLine Xtreme 201 Elastomeric Polyurethane is a 100% solids, solvent free, flexible, elastomeric, 95° “Shore A” industrial PU lining system. It is manufactured by spray application using specialised low pressure, low temperature 1:1 ratio Polyurethane dispensing equipment.

PRINCIPLE USES

FedLine Xtreme 201 Polyurethane can be sprayed onto a variety of substrates to provide an abrasion resistant, impact resistant, waterproof, and corrosion resistant, seamless coating, which is also resistant to many corrosion causing chemicals.

Since it is a 100% volume solids spray system & there are no solvents to evaporate, several significant cost and time saving advantages accumulate to the application.

APPLICATIONS

- FedLine Xtreme 201 is used for coating & lining of separation trays, pipe lines, hoppers, acid tanks, settling tanks, slurry tanks, primary & secondary containment areas, silos, roofs, gutters, agitating tanks, floors, foundations, chutes, conveyors, transporters, containment units, hygienic areas, waterproofing etc.
- Over-coating for insulation foams e.g. urethanes, polystyrene, polyethylene, etc.
- Protective industrial strength linings for load bins of vehicles i.e. pick-up trucks, panel vans, trailers, trucks, LDV's etc.

CHEMICAL RESISTANCE

FedLine Xtreme 201 is resistant to a variety of mild chemicals, acids & alkalis.
Please contact Federal Industrial Linings for advice on specific chemical product resistance.

PERFORMANCE DATA

Description

Results

Hardness	95° Shore A
Mix Ratio	1 : 1 (by volume) / 1 : 1.15 (by weight)
Touch Dry (Hours) @ 25°C	0.1 hrs
Over Coating Time (Hours) @ 25°C	0.1 – 6 hrs
Hard Dry (Hours) @ 25°C	0.5 hrs
Walk on Dry (Hours) @ 25°C	1 hr
Full Cure @ 25°C	24 hrs
Kit Size	50 kg kits (25kg Poly & 25kg ISO)
Volume Solids	100%
Theoretical Coverage (m²)	1.1kg yields 1mm thickness p/m² (Excludes wastage)
Application Temperature	10 – 40°C
Shelf Life	9 months in unopened containers
Tensile Strength	15 Mpa
Elongation at break	210%
Tear Strength (Unnotched / Notched)	60 kN/m / 35 kN/m
Density (Mixed)	1.1 g/ml
CFC's & VOC's	None

ADVANTAGES

Good inter-laminar adhesion.
No time lag between coats.
No solvent entrapment to cause delamination or porosity.
Very short tack-free times.
No flammable or toxic solvent hazards.
No solvent attack on sensitive surfaces e.g. polystyrene.
Sprayable at temperatures of 10°C and above.
Good adhesion to various substrates.

APPLICATION

Apply to the desired thickness using low pressure PU spray equipment, (available from Federal Industrial) to a cleaned and prepared surface. On concrete surfaces **FedPrime MC808 Epoxy Primer** must be used. Any porous or absorbed areas still showing after priming applications, should be primed again.
On stainless steel, aluminium, fibreglass, wood, rubber & plastic surfaces **FedPrime XP 308 PU Primer** must be used. For any specialised surfaces or applications please contact Federal Industrial Linings.
Steel substrates should be grit / sandblasted to Sa 2½ (ISO 8501-1) prior to application – no primer required.
Should grit / sandblasting not be possible, a surface tolerant epoxy primer (available from Federal Industrial) should be used. For load bins to delivery vehicles, chemical preparation is sufficient – please contact Federal Industrial for advice.

CLEANING

Clean hands and skin immediately after use with industrial hand cleaner.
Clean tools and equipment immediately after use with Acetone or MEK.

LIMITATIONS

- Working temperatures between 10 and 40°C.
- Will not accommodate constant heat above 70°C
- Avoid excessive application.
- Avoid contact with skin.
- Do not release into sewer or surface water.

STORAGE AND STABILITY

Shelf life is 9 months when stored in unopened containers in a cool & dry place.

Failure to do so will result in a reduction of shelf life.

Raw materials are sensitive to moisture & humidity – always ensure containers are sealed tight.

SAFETY AND HANDLING

Use only with adequate ventilation. Avoid breathing of vapours and prolonged or repeated skin contact.

Protective clothing and gloves should be worn when handling this product.

All sources of ignition should be removed.

The safety procedures applicable to the handling of polyurethanes and chemical materials should be read, understood and rigidly adhered to.

Although FedLine Xtreme 201 Polyurethane is relatively non-toxic, it is recommended that the normal precautions in dealing with conventional PU resin systems be adhered to.

The information contained in this data sheet is to the best of our knowledge true and correct, but any recommendations or suggestions that may be made are without guarantee as the conditions of use are beyond our control. Federal Industrial Linings specifically records that no guarantees and/or warranties are hereby made or given either expressed or implied.