



LC-25 Lock

Extreme Chemical Exposure
Lock Coat

Technical Data Sheet

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Selection and Specification Data

Description

VersaFlex LC-25 Lock Coat Primer is a solvent borne fluoroelastomer, offering outstanding chemical, temperature and permeation resistance. LC-25 is designed to be used as a lock coat after the application of VersaFlex Fast Set Spray materials and provides superior adhesion for the VT-40 Finish Coat.

Typical Uses

VersaFlex LC-25 Lock Coat may be used with all VersaFlex rapid curing polyurea sealants and spray coating systems. LC-25 is designed for use with VT-40 in severe duty environments subject to chemical and heat exposures.

Suitable for exposure to:

- Acids
- Caustics
- Fuels
- Aqueous Solutions

Advantages

- Excellent resistance to most harsh chemical environments
- Continuous operating temperature from -40°F to 400°F
- 500% elongation
- Very low coating permeability
- Will not harden or become brittle
- Minimal shrinkage after cure

Theoretical square feet per gallon

Theoretical coverage is 1604 square feet per gallon at 1 mil. Actual surface coverage will depend on the substrate porosity and roughness. A wet film thickness gauge may be used to determine actual coating coverage. For Dry mil coverage divide by % solids content.

Physical Properties (Typical) Independent Testing

Description	Method	Results
VOC	Theoretical	205 g/L
Solids Content	Theoretical	25
Pot Life @ 70°F, 50% RH. (Catalyzed)		30–45 minutes
Cure time @ 70°F, 50% RH. Longer cure in lower temp		7 days
Tensile Strength (psi)	ASTM D638	>1800
Tensile Elongation (%)	ASTM D638	500%
Moisture Vapor Transmission, perms	ASTM E96	0.0042
Shore (A) Hardness	ASTM D2240	>45
Taber abrasion, mg wt. loss (1000 g, 1000 revs, H-22)	ASTM D4060	0.011



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Substrate and Surface Preparation

General:

LC-25 Is designed to be used over Versaflex Fast set spray material within 24 hours of application that is clean, dry tack-free.

Dew Point:

Substrate temperature must be 5°F above dew point and rising before application of coating material.

Mixing Instructions

- LC-25 is prepackaged in separate containers with adequate space in the primary container to accept the full contents of the catalyst container. Pour entire contents from the catalyst container into the primary container.
- Using a slow speed drill and mixer (Jiffy Mixer preferably), mix contents together for 2 minutes, or until thoroughly mixed. Maintain that the mixer is completely submerged in the material of the container to minimize air entrainment.
- If mixing partial batches, use graduated cylinder to measure 10 parts of resin to 1 part of catalyst. Using a slow speed drill and mixer (Jiffy Mixer preferably), mix contents together for 2 minutes, or until thoroughly mixed.
- Special care should be taken to ensure air is not entrained into material during the mixing process. Do not reduce material with solvents.

Application

Application Process:

To ensure maximum performance LC-25 requires three coats to be applied directly over the VersaFlex polyurea coating materials. To achieve maximum adhesion, LC-25 should be applied to coating within 24 hours of application. Use 3/8" nap roller. Apply LC-25 maintaining a consistent coating thickness. Cut-in of corners and hard to reach areas may be done with the use of a good quality enamel type brush.

Recoat Window:

4 to 6 wet mils per application. Maximum overcoat time: None (surface must be clean and dry). Allow LC-25 Lock Coat to cure for 30 to 90 minutes prior to application of VT-40 Finish Coat.

Application Rates

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Coverage Rates:

Coverage Sq. Ft. per Gallon	Wet Mils	Dry Mils
400	4	1
267	6	1.5

Cleanup and Safety

Cleanup

Ketone based solvents; MEK or Acetone perform well.
Cured product may be disposed of without restriction. Excess liquid 'A' & 'B' material should be mixed together and allowed to cure, then disposed of in the normal manner. Product containers that are "drip free" may be disposed of according to local, state, and federal laws.

Safety - Review SDS at www.versaflex.com.

- Wear Long sleeve overalls or disposable Tyvex suit
- Rubber gloves
- Protective eye wear
- Rubber or leather boots
- Respirator
- Do not use near high heat or open flame
- Do not take internally
- Keep out of reach of children



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Packaging, Handling, and Storage

Packaging

- Four Gallon Kit: 4 gallons of LC-25 Lock Coat and a separate containers of CA-LC25/VT-40 Catalyst.
- One Gallon Kit: 1 gallon of LC-25 Lock Coat and a separate container of CA-LC25/VT-40 Catalyst.

Shelf Life

One year from shipment date, in original, unopened factory containers.

Storage Temperature and Humidity

	Storage Temperature	Storage	Special Handling
LC25/VT40	50° Minimum 70° Optimum	Keep Dry. Keep from freezing. Store in covered temperature controlled environment .	Keep containers closed and protected from atmospheric contamination.

Warranty

Limited Warranty. Company warrants its goods to be free of manufacturing defects. Goods manufactured by Company will comply with all applicable federal, state and local laws and regulations. Company makes no warranty as to any parts or equipment manufactured by others. Customer shall look solely and only to the manufacturer of such parts or equipment with respect to any warranty claims. Company hereby assigns to Customer the original manufacturer's warranties to all such equipment and parts, to the full extent permitted. THE AFORESAID IS THE EXCLUSIVE WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. SPECIFICALLY, THERE ARE NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

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