



VT40 Finish Coat™

Extreme Chemical Exposure

Finish Coat

Technical Data Sheet

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Selection and Specification Data

Description

VersaFlex VT-40 Finish Coat is a combination of Viton and PTFE, offering outstanding chemical, temperature and permeation resistance. VT-40 Finish Coat is designed to be used in combination with LC25 Lock Coat and VersaFlex Fast Set Spray materials. VersaFlex VT-40 is a heavy solids protective top coating suitable for most service environments. The VT-40 system may be applied directly to metal. VersaFlex recommends up to a 20 dry mil thickness for containment of harsh chemical exposure.

Typical Uses

VersaFlex VT-40 Finish Coat should be used in combination with LC-25 and VersaFlex rapid curing polyurea sealants and spray coating systems. VT-40 is designed for use in severe duty environments subject to harsh chemical exposures.

Suitable for exposure to:

- Acids
- Caustics
- Fuels
- Aqueous Solutions

Advantages

- Excellent resistance to most harsh chemical environments
- Continuous operating temp. from -40°F to +400°F
- 250% elongation
- Very low coating permeability
- Will not harden or become brittle
- Minimal shrinkage after cure

Theoretical square feet per gallon

*Note: 1604 wet mil inches per gallon. Totally dependent on substrate texture and condition. For Dry mil coverage divide by % solids content.

Physical Properties (Typical) Independent Testing

Description	Test Method	Results
VOC	Theoretical	198 g/L
Solids Content	Theoretical	40
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	600-900
Tensile Elongation (%)	ASTM D638	235-290%
Tear Strength (pli, Die C)	ASTM D624	70-125
Moisture Vapor Transmission, perms	ASTM E96	0.0017
Shore (D) Hardness	ASTM D2240	15-25
Taber abrasion, mg wt. loss (1000 g, 1000 revs, H-22)	ASTM D4060	0.002



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Mixing Instructions

VT-40 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 little or no air is entrained into material during the mixing process. MEK is recommended to be added to obtain stated pot life and assist in spreading the material. Approximate 10% of volume maximum.

Application

Application Temperature:

40°F and higher. VT-40 must be used in temperatures higher than 40°F. Because VT-40 is a solvent based coating system, temperatures above 100°F will reduce coating pot life during application .

Application Process:

Apply VersaFlex Fast Set Spray material and LC-25 Lock Coat. Allow LC-25 Lock Coat to dry for 30 to 90 minutes before over coating. VT-40 is applied as a multi coat system. Exposure type will determine the final dry film thickness necessary. Consult VersaFlex Incorporated for specific recommendations. Use a 1/4" to 3/8" nap roller, brush or squeegee depending on substrate profile. MEK is recommended to be added to obtain stated pot life and assist in spreading the material. Approximately 10% of total volume maximum Cut-in of corners and hard to reach areas may be done with the use of a good quality enamel type brush. Allow 1 to 3 hours of cure time between coats of VT-40 Finish Coat. Always insure that areas to be recoated are clean and dry prior to coating. Allow to cure for 7 days for full effective chemical resistance characteristics

Application Rates:

Consult Application Chart. Apply at 80 to 160 square feet per gallon depending on chemical exposure.

Coverage Rates:

Coverage Sq. Ft. per Gallon	Wet Mils	Dry Mils
160	10	4
80	20	8



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Packaging, Handling, and Storage

Packaging

- Four Gallon Kit: 4 gallons of VT-40 Finish Coat and a separate container of CA-LC25/VT-40 Catalyst.
- One Gallon Kit: 1 gallon of VT-40 Finish 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 & Humidity

	Storage Temperature	Storage	Special Handling
VT-40	50° Minimum 70° Optimum	Keep Dry. Keep from freezing. Store in covered temperature controlled environment if possible.	Keep containers closed and protected from atmospheric contamination.
CA-LC25/VT40	50° Minimum 70° Optimum	Keep Dry. Keep from freezing. Store in covered temperature controlled environment if possible.	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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