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## Product Data Sheet

### **VT-40 Finish Coat™** **Extreme Chemical Exposure Finish Coat**

**Product 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 LC-25 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.

**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:**

- Anywhere extreme chemical exposure occurs and substrate must be protected.

**Exposures may include:**

- Acids
- Caustics
- Fuels
- Aqueous solutions

**Advantages:**

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

**Physical Properties-**

<u>Property</u>	<u>Test Method</u>	<u>Typical Value</u>
Color		Gray
Solids Content, %		40
Shore D Hardness	ASTM D2240	15 – 25
Elongation	ASTM D638	235 – 290%
Tensile Strength, psi	ASTM D638	600 – 900
Modulus of Elasticity, psi	ASTM D638	765 – 1180
Bond Strength, psi (Fast Set Spray coatings)	ASTM D4541	>200
Viscosity, cps		>7,000
Tabor Abrasion (H-22 wheel, 1000 gr load)	ASTM D4060	0.002
Permeability (perm-inch)	ASTM E96	0.0017
Tear Strength, pli	ASTM D624	70 – 125
Pot Life @ 70°F, 50% RH (After Catalyzed)		30 – 45 minutes
Tack Free		30 minutes
Cure Time @ 70°F, 50% RH (longer cure in lower temperatures)		7 days

The value ranges stated in this Technical Data Sheet are based on system processing under laboratory conditions. Equipment configurations and/or field application conditions may produce variances in final system values.

**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.

**Mixing-** *VersaFlex* VT-40 is a two-component product.

Thoroughly mix with a slow speed drill and mixer (jiffy mixer preferably) the **VT-40 Finish Coat** insuring that any solids that may have settled are dispersed back into solution. Maintain that the mixer is completely submerged in the material of the container to minimize air entrainment.

- Add provided CA-LC25/**VT-40** Catalyst to **VT-40 Finish Coat** and mix thoroughly.
- May be applied with brush, roller, squeegee, or lambs wool applicator.

**Application Recommendations-**

1. 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. Apply mixed **VT-40 Finish Coat** to achieve a total dry film thickness up to approximately 20 mils depending on exposure type, using a brush, roller, squeegee, or lambs wool applicator. Special care should be taken to ensure all areas are completely and uniformly coated. Consult Application Chart for specific spread rates and mil thickness. Total dry film thickness is dependent upon exposure conditions, contact *VersaFlex* for recommendation.
2. 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.

Prior to the application of the lining system, metal substrates shall be prepared to an SSPC-SP 10 (Near White Metal Blast) to SSPC SP-5 (White Metal Blast), with an angular blast profile of 3 to 5 mils. Use ASTM D4417-03: Standard Test Methods for Field Measurement of Surface Profile of Blast Cleaned Steel for confirmation of profile.

Concrete substrates shall be prepared to an ICRI CSP of 3 to 5 before the complete polyurea basecoat system application is performed.

**Safety-** Review SDS at *VersaFlex.com*

Basic safety for personal protection is:

- Long sleeve overalls or disposable Tyvex overalls
- Rubber gloves
- Splash shield or safety glasses with splash guards
- Rubber or leather boots
- Respirator
- Do not use near high heat or open flame
- Do not take internally
- Keep out of reach of children

**Precaution-** This product contains Volatile Organic Compounds (VOC's) which may be released during and for some period after installation producing odors and affecting air quality. To avoid possible contamination of sensitive substances and for protection of human health, ensure proper air ventilation of work areas until odors completely dissipate.

**Shelf Life-** One year from date of shipment, in original, unopened factory containers, under normal storage conditions of 55°F to 95°F (18°-35°C).

**Technical Services-** Sales and Customer Support 913-321-9000

**VersaFlex Product Manufacturer's Warranty**

During a period of one-year from date of shipping, *VersaFlex* Incorporated will refund the price of or replace, at its election, product it finds to be defectively manufactured, provided the product has been stored and used properly. Except as expressly stated herein, the company makes no warranty of merchantability and no warranty of fitness for any particular purpose, nor does it make any warranty, expressed or implied, of any nature whatsoever with respect to the product or its use. In no event shall the company be liable for delay caused by defects, for loss of use, for indirect, special or consequential damages, or for any charges or expenses of any nature incurred without its written consent.

