



VersaFlex Incorporated  
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## Product Data Sheet

### VF 300™

Elastomeric Polyurea

USGBC LEED, EQ Credit 4:  
 Low-emitting VOC Compliant Materials

**Product Description-** *VersaFlex VF 300* is a fast set, rapid curing, 100% solids, flexible, two-component polyurea elastomer spray coating material. *VF 300* is a zero VOC, odorless system applied at a 1:1 mix ratio with plural component spray equipment. *VF 300* gels in about 6 seconds, forming a monolithic membrane suitable for concrete and metal applications. As a result, downtime is minimized, allowing rapid return to service of the parts coated. It can be applied at a thickness of 20 to 200 mils in a single application.

**Uses-** *VersaFlex VF 300* is a superior coating material designed specifically for industrial applications receiving constant or intermittent attack from contained materials, subsurface hydrostatic pressure, most corrosive substances, and abrasive action. *VF 300* is flexible, accommodating to movement of the substrate, yet strong enough to remain intact under all conditions except major structural dislocations. With or without reinforcements, *VF 300* may be used in transitional areas with confidence. *VF 300* may be used in interior or exterior applications and may be used for repair of other films, may be applied to primed concrete and other substrates. *VF 300* may be utilized in cool weather conditions, cold storage facilities, freezers, and food processing plants where time and temperature are serious concerns.

#### Ideal for Applications in:

- Industrial Facilities, Refineries
- Parking Garage Decks
- Below Grade Waterproofing
- Above Grade Damp proofing
- Water and Waste Water Treatment
- Cold Storage Facilities
- Pulp and Paper Mills
- Walkways and Balconies
- Secondary Containment
- Fertilizer and other Process Plants
- Mining Operations, Landfill Containment

#### Advantages:

- 100% Solids, No VOC's
- Flexible, 400% Elongation
- Excellent Thermal Stability, Heat of Deflection 250°F, no load
- Glass Transition Temperatures -85°F and 450°F
- Suitable for Use when pH ranges from 3 – 13
- Good Resistance to a wide range of Chemical Attack
- Low Permeance Rate, Seamless Elastomer
- Remains Flexible in Cold Temperatures
- Return Project to Service in 60 Minutes
- Cures from -20°F to 225°F
- USDA Approved, Odorless, No Toxic Vapors

#### Physical Properties-

(Typical) 1:1 Mix Ratio	Test Method	Typical Value
<b>Cured Film Properties</b>		
Solids content		100%
Shore D hardness	ASTM D2240	45 - 48
Elongation	ASTM D412	400%
Tensile strength, psi	ASTM D412	2,000 - 2,500 psi
Tear strength, pli, Die C	ASTM D642	450 pli
Moisture vapor transmission	ASTM E96	0.02 perm
Abrasion resistance, weight loss, H-18 wheel	ASTM D4060	125 mg
Gel time		6 seconds
Tack free		18 seconds

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.

**Limitations-** *VF 300* should not be used for direct contact with extremely high or low pH attack. Composite systems are available. Consult *VersaFlex*.

**Coverage Rates-** Theoretical square feet per gallon

\*Note: 1604 mils per gallon. Totally dependent on substrate texture and condition.

Mils	10	15	50	60	80	100	125
Sq. Ft.	160	107	32	27	20	16	13

**Packaging-**

- One Hundred Ten Gallon Kit: 55 gallons of 'A' side and 55 gallons of 'B' side. Drum containers filled by weight, volume is closely approximated.

**Mixing- VF 300** must be spray applied using approved equipment. Use 1:1 ratio pump with appropriate material heaters, as required for individual application.

**Colors-** View ColorFlex chart at [versaflex.com](http://versaflex.com).

**Preparation & Installation-** Regard **VersaFlex** Specifications for **VF 300**, for detailed preparation and installation procedures. Substrate priming is not required on all substrates, consult **VersaFlex** for recommendations.

**Clean Up-** 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 MSDS at [VersaFlex.com](http://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

**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

**Warranty-***VersaFlex Incorporated* will refund the price of or replace, at its election, product it finds to be defective provided the product has been used properly. Except as expressly stated above, 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 of 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 changes or expenses of any nature incurred without its written consent.