VersaFlex Incorporated
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Product Data Sheet

VF 340™

ASTM E84 Class 1 Flame Resistant Spray Polyurea

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

Product Description- ***VersaFlex*** **VF 340** is a 100% solids elastomeric polyurea membrane developed for applications requiring a flame resistant coating. It is a fast set, rapid curing, flexible, two-component polyurea elastomer spray coating material that is Class 1 Fire resistant approved. **VF 340** is used by itself or in combination with other materials to produce coatings, liners, wearing courses and resilient surfaces on various substrates. **VF 340** produces an extremely tough film at all thicknesses. **VF 340** may be applied in all positions and to any properly prepared substrates. **VF 340** is inert, it will not hydrolyze, leach, or contaminate other materials, and is bondable and paintable. **VF 340** is relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions.

Uses- ***VersaFlex*** **VF 340** is a superior flame resistant material that resists ignition, will self-extinguish if ignited and is designed specifically for industrial applications involving various substrates that receives constant or intermittent attack from various chemicals. **VF 340** 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 340** may be used in transitional areas with confidence. **VF 340** may be used in interior or exterior applications.

Ideal for Applications in:

- Industrial facilities
- Parking garage decks
- Below grade waterproofing
- Above grade waterproofing
- Water & waste water treatment
- Food processing facilities
- Pulp & paper mills
- Bottling & canning facilities
- Walkways & balconies
- Secondary containment

Advantages:

- Class 1 Flame Resistant Approved Material
- 100% solids, no VOC's
- Odorless, no toxic vapors
- Tough elastomeric membrane
- Excellent thermal stability
- Minimal downtime
- Low permeance rate
- Good resistance to a wide range of chemical attack
- USDA approved
- Installation temperature range from -40°F to 350°F

Physical Properties-

Property	Test Method	Typical Value
VOC	Theoretical	0%
Solids Content	Theoretical	100%
Gel Time	ASTM D1640	5 – 10 seconds
Tack Free	ASTM D1640	25 – 45 seconds
Tensile Strength (psi)	ASTM D638	1180 – 1250
Tensile Elongation (%)	ASTM D638	190 – 270
Elastic Modulus (psi)	ASTM D638	950 – 1400
Tear Strength (lb/in)	ASTM D624	330 – 360
Shore (D) Hardness	ASTM D2240	38 – 42
Taber abrasion, mg wt loss (1000 g, 1000 revs, H-18)	ASTM D4060	145 – 165
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 340 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 mil inches 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 Six Gallon Kit: 53 gallons of 'A' side and 53 gallons of 'B' side. Drum containers filled by weight, volume is closely approximated.

Mixing- VF 340 must be spray applied using approved equipment. Use 1:1 ratio pump, with appropriate material heaters as required for individual application. *Note: Continual mixing on the 'B' side is recommended throughout the spray application time period to reduce settling.

Colors- View standard *ColorFlex* chart at www.versaflex.com

Preparation & Installation- Please review the Material Processing & Handling Information for preparation and application procedures. Substrate priming is not required on all metals, consult ***VersaFlex*** for recommendations. Consult the ***VersaFlex*** Spray Gun Configuration Recommendation PDF for specific modules and tips.

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
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 60^{o}F to 95^{o}F (18^{o}-35^{o}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.