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Product Data Sheet

VF 320™ Spray Polyurea

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

Product Description- *VersaFlex VF 320* is a fast set, rapid curing, 100% solids, flexible, two-component polyurea elastomer spray coating material with enhanced color stability capabilities. **VF 320** is used by itself or in combination with other materials to produce coatings, liners, wearing courses, and resilient surfaces on metal and concrete substrates. Its extremely fast gel time makes it suitable for applications down to -40°F without special conditioning of the component resins and isocyanates. **VF 320** produces an extremely tough film at all thicknesses. Single or multiple pass applications produce films from 10 mils up to 1000 mils without appreciable sag or runs. **VF 320** may be applied in all positions and to any suitably prepared substrate. **VF 320** is inert, it will not hydrolyze, leach, or contaminate other materials, and is bondable and paintable. **VF 320** is relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions.

Uses- *VersaFlex VF 320* is a superior metal coating material designed specifically for industrial applications receiving constant or intermittent attack from contained materials, most corrosive substances, and abrasive action. **VF 320** may be used to coat any properly prepared substrate. **VF 320** is flexible, accommodating movement of the substrate, yet strong enough to remain intact under all conditions except major structural dislocations. With or without reinforcements, **VF 320** may be used in transitional areas with confidence. **VF 320** may be used in interior or exterior applications including new construction and renovation work.

Ideal for Applications in:

- Waterproofing membranes
- Chemical plants
- Foam coatings
- Flexible membranes
- Flooring
- Liners
- Metal parts
- Tank linings

Advantages:

- 100% solid, no VOC's, Odorless
- 1:1 mix ratio by volume
- Rapid cure
- Fast return to service, minimal downtime
- Applied by plural component spray
- Enhanced color stability
- Installation Temperature range from -40°F to 300°F
- FLL Root Resistant
- ANSI/GRHC/SPRI VR-1 (2011) compliant

Physical Properties-

(Typical) 1:1 Mix Ratio		
<u>Cured Film Properties</u>	<u>Test Method</u>	<u>Typical Value</u>
Solids content		100%
Shore D hardness	ASTM D2240	50 – 55
Elongation	ASTM D412	260 – 360%
Tensile strength, psi	ASTM D412	2000 – 2800 psi
Tear strength	ASTM 624	300 – 450 (lb./in.)
Moisture vapor transmission	ASTM E-96	0.02 perm
Abrasion resistance, weight loss	ASTM D4060	150 – 250 mg
Gel time		5 – 10 seconds
Tack free		15 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 320** 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. 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 320 must be spray applied using approved equipment. Use 1:1 ratio pump with appropriate material heaters, as required for individual application. For more information contact VersaFlex.

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

Surface Preparation & Installation- Metal: SSPC SP-10 or NACE No. 2 (Near White Metal Blast Cleaning).
Concrete: abrasive blast to achieve a CSP of 3 to 5. Regard VersaFlex specification and Material Processing & Handling Information for further details. Substrate priming is not required on all substrates, contact VersaFlex for recommendations. Consult VersaFlex Spray gun configuration pdf for module and tip information.

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°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.