



VersaFlex Incorporated  
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## Product Data Sheet

### **AquaVers™ 415**

**NSF/ANSI 61.5 Certified  
Spray Polyurea**

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

**Product Description-** *VersaFlex AquaVers 415* is a fast set, rapid curing, 100% solids, structural, two-component performance modified polyurea spray coating/lining material. **AquaVers 415** is potable water approved in accordance with NSF/ANSI 61.5 barrier material. Its fast gel time makes it suitable for applications down to -40° F without special conditioning of the component resins and isocyanates. **AquaVers 415** produces an extremely tough structural film at all thicknesses. **AquaVers 415** is relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions.

**Uses-** *VersaFlex AquaVers 415* is a superior coating/lining material designed specifically for industrial applications receiving constant or intermittent attack from contained materials, subsurface hydrostatic pressure, most corrosive substances and abrasive action. **AquaVers 415** is rigid and strong enough to remain intact under all conditions involving structural integrity. With or without reinforcements, **AquaVers 415** may be used in transitional areas with confidence. **AquaVers 415** may be used in interior or exterior applications. **AquaVers 20** primer and **AquaVers 201** aliphatic coating are companion products within our **Potable Water Coating** systems.

#### **Ideal for Applications in:**

- Potable water containment
- Internal Pipe Lining
- Industrial facilities
- Water treatment
- Food processing facilities
- Bottling & canning facilities
- Reinforcement Applications

#### **Advantages:**

- Potable water approved in accordance with NSF/ANSI 61.5 barrier material
- Conforms to AWWA D102 ICS#4
- 100% solids, no VOC's
- Excellent thermal stability
- Exposure Temperatures: -40° F/-392° F/-40° C-200° C, dry
- Coefficient of Linear Expansion: -40° F/-392° F/-40° C-200° C: 0.834%
- Generally suitable for use when pH ranges from 4-11
- Good resistance to a wide range of chemical attack
- Non-catalyzed
- Low permeance rate
- Return project to service in 60 minutes
- Odorless, no toxic vapors
- USDA approved

**Physical Properties-**

Property	Test Method	Typical Value
VOC	Theoretical	0
Solids Content	Theoretical	100%
Gel Time	ASTM D1640	10 - 12 seconds
Tack Free	ASTM D1640	~2 minutes
Cured Density	Displacement	0.82 - 0.91
Tensile Strength (psi)	ASTM D638	2,500 - 3,200
Tensile Elongation (%)	ASTM D638	0.5 - 1.2%
Modulus of Elasticity (kpsi)	ASTM D638	100 - 300
Flexural Strength (kpsi)	ASTM D790	9 - 11
Flexural Modulus (kpsi)	ASTM D790	250
Tear Strength (lb/in)	ASTM D624	120 - 240
Shore (D) Hardness	ASTM D2240	75
Taber abrasion, mg wt loss (1000 g, 1000 revs, H-18)	ASTM D4060	140

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- AquaVers 415** should not be used for direct contact with extremely high or low pH attack.

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

**Mixing- AquaVers 415** must be spray applied using approved equipment. Use 1:1 ratio pump with appropriate material heaters, as required for individual application.

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

**Preparation & Installation-** Regard **VersaFlex** specifications for **AquaVers 415** Spray Polyurea 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 SDS at [VersaFlex.com](http://VersaFlex.com)

Basic safety for personal protection is:

- Long sleeve overalls or disposable Tyvek 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

**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.