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# Product Data Sheet

## VF 380 (PV 380)

### Elastomeric Polyurea

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

**Product Description - VersaFlex VF 380** is a 100% solids elastomeric polyurea developed for applications such as geotextile lining membranes. **VF 380** may also be applied to concrete and steel substrates. **VF 380** is a volatile free, odorless system applied with 1:1 mix ratio with plural component spray equipment.

**Uses - VersaFlex VF 380** provides less shrinkage with improved elongation characteristics. As a result, **VF 380** makes an excellent polyurea for liners, geotextile coatings, and applications where resilience and durability are required. **VF 380** can be applied at a thickness of 10 to 200 mils in a single application.

#### Ideal for Applications In -

- Waterproofing Membranes
- Geotextile Coatings
- Foam Coatings
- Flexible Membranes
- Liners
- Metal Parts
- Crude Oil Condensate tanks
- Oil production water containments
- Typical ambient waste water & hydrogen sulfide exposures.

#### Advantages -

- 100% Solids
- 1:1 Mix Ratio by Volume
- Rapid Cure
- Immediate Return to Service
- Applied by Plural Component Spray
- Odorless
- No VOC's
- Low curing stress shrinkage
- Operating Temperatures -40°F to 350°F

#### Physical Properties -

(Typical) 1:1 Mix Ratio		
Cured Film Properties	Test Method	Typical Value
Solids Content		100%
Shore A Hardness	ASTM D2240	80-85
Elongation	ASTM D412	650%
Tear Strength	ASTM 624	>275 psi
Tensile Strength, psi	ASTM D412	>2500 psi*
Moisture Vapor Transmission	ASTM E-96	0.02 perm
Flexibility	ASTM-D-2794	>160in-lbs
Gel Time		30 seconds
Tack Free		45 seconds
*Full properties achieved between 40-60 days		
Tested in accordance to EPA 9090A		
LARR Approval (CA)		

**Limitations - VF 380** 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

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

Note: 1604 mil inches per gallon. Totally dependent on substrate texture and condition.

**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 380** must be spray applied using approved plural component equipment. Use 1:1 ratio pump, with appropriate material heaters as required for individual application.

**Colors -** Standard color is charcoal gray, light gray, or black. Other colors available upon request. Consult **VersaFlex**.

**Shelf Life -** One year, in original, unopened factory containers under minimum storage conditions of 70°F.

**Clean Up -** Cured product may be disposed of without restriction. Excess liquid 'A' and '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 Material Safety Data Sheet information @ **VersaFlex.com**.

Basic safety for personal protection is:

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

**Surface Preparation and Application –** Please review the Material Processing & Handling Information for preparation and application procedures. Substrate priming is not required on all substrates, consult **VersaFlex** for recommendations. Also, please consult the **VersaFlex** Spray Gun Configuration Recommendation PDF for specific modules and tips.

**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 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.