



VersaFlex Incorporated
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Product Data Sheet

VF 20™

Modified Urethane Primer

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

Product Description- *VersaFlex VF 20* is a two-component isocyanate and resin blend primer for use on a variety of substrates. *VF 20* may be diluted to reduce viscosity. *VF 20* has a working time of 45 minutes. Ponding on the surfaces is to be avoided.

Uses- *VersaFlex VF 20* primer may be used with all *VersaFlex* rapid curing polyurea sealants and spray coating systems. It is designed for use in both interior and exterior priming situations.

Ideal for Applications in:

- Primer/Sealer
- For porous substrates

Advantages:

- No VOC's
- Low viscosity, Odorless
- 100% solids
- Penetrating sealer
- Formulated as a *System* with *VersaFlex* products
- Reduces pin-holes
- Applied by spray, squeegee, roller or brush
- Increases adhesion of coating to concrete
- Reduces MVE in concrete

Physical Properties-

(Typical) 1:1 Mix Ratio		
Cured Film Thickness	Test Method	Typical Value
Solids content		100%
Adhesion to concrete	Elcometer	300 – 600 psi
Recoat window	@77°F (25°C)	up to 72 hours
Gel time – Tack free	Dependent on ambient temperature	45 minutes – 2 hours
Working time*	Dependent on ambient temperature	45 minutes/200 gm mass
*Do not exceed 45 minutes – material may appear to be workable but polymerization has exceeded suitable working time.		
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.		

Moisture Vapor Emission Reduction in Concrete (after *VF 20* is applied). Applicable to floor applications only.

Concrete, MVE ¹	10.6-10.9 lbs/1000ft ² per 24 hours	1.78
Concrete, Humidity ²	>87%	78%

¹= Calcium Chloride test, ASTM F1869

²= Hooded Probe, ASTM F2420

Packaging-

- Ten Gallon Kit: 5 gallons of 'A' side and 5 gallons of 'B' side
- Two Gallon Kit: 1 gallon of 'A' side and 1 gallon of 'B' side

Mixing-The combining ratio is 1 part 'A' to 1 part 'B'. *VF 20* may be mixed as a 1:1:1 blend with acetone to reduce viscosity and extend working time. Proportion the amounts carefully and mix for one full minute using a wooden stir stick or low speed drill, scraping the bottom and sides of the mixing vessel. Incomplete homogenization will result in improper cure. Do not over mix. Due to the speed of the reaction, mix small and manageable quantities and pour out of the mixing pail immediately to obtain full working time.

Surface Preparation- Concrete should be cured at least 30 days and be clean, dry, structurally sound and free of wax, dirt, loose coating, curing compounds, and petrochemicals. Random cracks, damaged control joints, and construction joints should be properly repaired prior to application. Air blast or vacuum out the remaining concrete dust prior to installing **VF 20**. All horizontal or vertical concrete or masonry surfaces should be abrasive blasted. Please review the Material Processing & handling information for further details.

Recommended topcoats – a variety of **VersaFlex** polyurea products. Consult Technical Services for support.

Clean Up- Cured product may be disposed of without restriction. Excess liquid 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 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.