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# Product Data Sheet

## **VF 30™ Epoxy Primer**

**Product Description-** *VersaFlex VF 30* is a low viscosity, high solids epoxy developed as a penetrating concrete primer for polyurea applications. *VF 30* penetrates and strengthens the surface of the concrete, reduces pin-hole formations and provides a chemically reactive surface to accept *VersaFlex* polyurea systems. Adhesion is increased with the use of *VF 30* by up to three times that of unprimed concrete.

**Uses-** *VersaFlex VF 30* epoxy primer may be used with all *VersaFlex* rapid curing polyurea sealants and spray systems. It is designed for use in both interior and exterior priming situations. *VF 30* may also be used as a damp surface primer. *VF 30* is designed for installation work at ambient temperatures above 70°F (20°C).

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

- Primer/Sealer
- Concrete surfaces
- Wood surfaces
- Chemical plants
- Industrial facilities
- Polyurea coatings
- Epoxy coatings
- Urethane coatings

### **Advantages:**

- Low viscosity
- High solids
- Penetrating sealer
- Formulated as a System with VersaFlex products
- Reduces pin-holes
- Applied by brush, spray or roller
- Increases adhesion to concrete by up to 3 times
- Reduces MVE in concrete

### **Physical Properties-**

| <b>(Typical) 1:1 Mix Ratio</b>  |                                  |                      |
|---|----------------------------------|----------------------|
| <b>Cured Film Thickness</b>   | <b>Test Method</b>               | <b>Typical Value</b> |
| Solids content  |                                  | >98%                 |
| Adhesion to concrete  | ASTM 4541                        | >300 psi             |
| Pot life  | @72° – 75°F                      | 1 hour               |
| Dry time  | Dependent on ambient temperature | 18 – 24 hours        |
| Able to topcoat   | Dependent on ambient temperature | after 2 – 4 hours    |
| Recoat window   | Dependent on ambient temperature | up to 24 hours       |
| 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. |                                  |                      |

### **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  |

Moisture Vapor Emission Reduction in Concrete (after *VF 30* is applied). Applicable to floor applications only.

|                                 |  |      |
|---------------------------------|--|------|
| Concrete, MVE <sup>1</sup>      | 10.6-10.9 lbs/1000ft <sup>2</sup> per 24 hours | 1.25 |
| Concrete, Humidity <sup>2</sup> | >87%   | 63%  |

<sup>1</sup>= Calcium Chloride test, ASTM F1869

<sup>2</sup>= Hooded Probe, ASTM F2420

### **Packaging-**

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

**Mixing-** 'A' & 'B' may be chilled prior to mixing in order to extend the actual working time. Combining ratio is 1 part 'A' to 1 part 'B'. See mixing instructions on container. If using pigmented material, stir part 'A' well, bringing settled pigments up from bottom of container before adding part 'B'. Proportion the amounts carefully and mix for 1 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. Because of the speed of the reaction, mix small amounts and do not over mix.

**Surface Preparation-** Concrete should be cured 28 days, clean, structurally sound, and free of curing compound and contaminants. Random cracks, damaged control joints, and construction joints should be properly prepared prior to application according to ICRI Guideline 310.2R-2013.. Air blast or vacuum off the remaining concrete dust prior to installing **VF 30**. All horizontal or vertical concrete or masonry surfaces should be abrasive blasted to achieve the appropriate CSP (Concrete Surface Profile) prior to application.

Depending on surface porosity, apply at 400-500 square feet per gallon. Apply with brush, roller, notched trowel or squeegee. VF 30 will take longer to dry when used at temperatures below 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 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

**Precaution-** This product contains Volatile Organic Compounds (VOC's) which may be released during and for some period after installation producing odors and affecting air quality. To avoid possible contamination of sensitive substances and for protection of human health, ensure proper air ventilation of work areas until odors completely dissipate.

**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

#### **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.