



PolyVers International  
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# Product Data Sheet

## PV 20

### (VF 20)

## Modified Urethane Primer

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

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

### Ideal for Applications In-

- Primer/Sealer
- For porous & non-porous substrates

### Advantages-

- No VOC's
- Low viscosity, Odorless
- 100% solids
- Penetrating sealer
- Formulated as a *System* with *PolyVers* Products
- Eliminates pin-holes
- Applied by spray, squeegee, roller or brush
- Increases adhesion of coating to concrete & metal

### Physical Properties-

(Typical) 1:1 Mix Ratio		
Cured Film Properties	Test Method	Typical Value
Solids Content		100%
Shore A Hardness	ASTM D2240	85-92
Elongation	ASTM D412	50-60%
Tensile Strength, psi	ASTM D412	1000
Adhesion to Concrete	Elcometer	300-600 psi
Gel Time-Tack Free	Dependant on ambient temperature	45 minutes-2 hours
Working Time*	Dependent on ambient temperature	45 min/200 gm mass
*Do not exceed 45 minutes – material may appear to be workable, but polymerization has exceeded suitable working time.		

**Limitations-** Consult *PolyVers*.

### Coverage Rates-

Theoretical Square Feet Per Gallon

Mils	10	15	50	60	80	100	125
	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 approximate.
- Ten Gallon Kit: 5 gallons of 'A' side and 5 gallons of 'B' side.

**Mixing** - The combining ratio is 1 part 'A' to 1 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. 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. **PV 20** may be mixed as a 1:1:1 blend with acetone to reduce viscosity and extend 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 **PV 20**. All horizontal or vertical concrete or masonry surfaces should be sand blasted or shot blasted. For variations consult **PolyVers**. Please review Material Processing & Handling Information for further details.

Recommended Topcoats – a variety of **PolyVers** 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. Uncured primer may be cleaned up with **PolyVers** Dzolv and cured material may be cleaned up with **PolyVers** TackCoat.

**Shelf Life**- One year, in original, unopened factory containers, under normal storage conditions of 13°C (55°F) to 35°C (95°F). Protect from freezing.

**Safety**- Read Material Safety Data Sheets provided with all shipments. Additional copies are available upon request from **PolyVers** or your local dealer.

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.
- Do not use near high heat or open flame.
- Do not take internally.
- Keep out of the reach of children.

## **Technical Services-Sales and Customer Support (913) 321-9000**

**Warranty**- **PolyVers International** 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.