



PolyVers International
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Product Data Sheet

PV 350 **(VF 350)**

Elastomeric Polyurea

Product Description- *PolyVers PV 350* is a fast set, rapid curing, 100% solids, flexible, two-component polyurea elastomer spray coating material. **PV 350** is a **zero VOC**, odorless system applied 1:1 mix ratio with plural component spray equipment. **PV 350** gels in 14-18 seconds, forming a monolithic membrane suitable for concrete and metal applications. As a result, downtime is minimized, allowing rapid return to service of the parts coated. It can be applied at a thickness of 10 to 200 mils in a single application.

Uses- *PolyVers PV 350* is a superior coating material designed specifically for industrial applications receiving constant or intermittent attack from contained materials, subsurface hydrostatic pressure, most corrosive substances, and abrasive action. **PV 350** is flexible, accommodating movement of the substrate, yet strong enough to remain intact under all conditions except major structural dislocations. With or without reinforcements **PV 350** may be used in transitional areas with confidence. **PV 350** may be used in interior or exterior applications. **PV 350** is recommended for repair of other films, may be applied to concrete and other substrates, in new construction and in cold weather conditions, cold storage facilities, freezers, and food processing plants where time and temperature are serious concerns.

Ideal for Applications In-

- Industrial Facilities, Refineries
- Parking Garage Decks
- Below Grade Waterproofing
- Above Grade Dampproofing
- Water and Waste Water Treatment
- Cold Storage Facilities
- Pulp and Paper Mills
- Walkways and Balconies
- Secondary Containment
- Fertilizer and other Process Plants
- Mining Operations, Landfill Containment

Advantages-

- **100% Solids, No VOC's**
- Flexible, 400% Elongation
- Excellent Thermal Stability, Heat of Deflection 121 °C (250°F), no load
- Glass Transition Temperatures -65 °C (-85°F) and 232 °C (450°F)
- Suitable for Use when pH ranges from 4 -11
- Good Resistance to a Wide Range of Chemical Attack
- Low Permeance Rate, Seamless Elastomer
- Remains Flexible in Cold Temperatures
- Return Project to Service in 60 Minutes
- Cures From 29 °C (-20°F) to 107 °C (225°F)
- USDA Approved, Odorless, No Toxic Vapors

Physical Properties-

(Typical) 1:1 Mix Ratio		
<u>Cured Film Properties</u>	<u>Test Method</u>	<u>Typical Value</u>
Solids Content		100%
Shore D Hardness	ASTM D2240	45
Elongation	ASTM D412	400%
Tensile Strength, psi	ASTM D412	2,500-3,000 psi
Tear Strength	ASTM 642 C	435 psi
Moisture Vapor Transmission	ASTM E-96	0.02 perm
Abrasion Resistance, weight loss	ASTM D-4060	125 mg
Gel Time		12 sec
Tack Free		18 sec

Limitations- PV 350 should not be used for direct contact with extremely high or low pH attack. Composite systems are available. 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.

Mixing- PV 350 must be spray applied using approved equipment. Use 1:1 ratio pump, with appropriate material heaters, as required for individual application. For information contact **PolyVers**.

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

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.

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- 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.

Preparation and Installation- Regard **PolyVers** specifications for **PV 350**, for detailed preparation and installation procedures. Substrate priming is not required on all substrates, consult **PolyVers** for recommendations.

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.