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# Product Data Sheet

## **PV 340** **ASTM E162 Pass &** **ASTM E84 Class 2 Fire** **Retardant Elastomeric Coating**

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

**Product Description - PolyVers PV 340** is a 100% solids elastomeric polyurea membrane developed for applications requiring a fire rated coating. **PV 340** is a volatile free, odorless system, applied at a 1:1 mix ratio with plural component spray equipment. **PV 340** gels in 10-15 seconds forming a monolithic membrane suitable for concrete and metal applications. As a result, downtime is minimized allowing rapid return to service. It can be applied at a thickness of 10 to 200 mils in a single application.

**Uses – PolyVers PV 340** 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 while still requiring ASTM E162 Pass and ASTM E84 Class 2 Fire Rating. **PV 340** is flexible, accommodating to movement of the substrate, yet strong enough to remain intact under typical conditions. With or without reinforcements, **PV 340** may be used in transitional areas with confidence. **PV 340** may be used in interior or exterior applications. **PV 340** is recommended for repair of other films and may be applied to concrete and other substrates in various weather conditions.

### **Ideal for Applications In -**

- Anywhere a Fire Retardant system is required
- Industrial Facilities
- Manufacturing Facilities
- Water and Waste Water Treatment
- Food Processing Facilities
- Walkways and Balconies
- Secondary Containment
- Transportation Infrastructure

### **Advantages -**

- 100% Solids, No VOC's
- Excellent Thermal Stability, Heat of Deflection 115°C, no load
- Glass Transition Temperatures -65°C and 230°C
- Generally Suitable for Use when pH ranges from 4 -11
- Good Resistance to a Wide Range of Chemical Attack
- Non-catalyzed, Non-reactive, Low Permeance Rate
- Seamless Elastomer
- Remains Flexible in Cold Temperatures
- Rapid Return to Service
- Cures From -30°C to 110°C
- USDA Approved
- Operating Temperatures -43°C to 177°C (-45°F to 350°F)

### **Physical Properties -**

<u>Cured Film Properties</u>	<u>Test Method</u>	<u>Typical Value</u>
Solids Content		100%
Shore D Hardness	ASTM D2240	55
Elongation	ASTM D412	88%
Tensile Strength, psi	ASTM D412	995
Tear Strength, pli, Die C	ASTM D624	340
Surface Flammability	ASTM E162	Pass
Fire Rating	ASTM E84	Class 2
Gel Time		10-15 seconds
Tack Free		120 seconds

**Limitations - PV 340** 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
Sq. Ft.	160	107	32	27	20	16	13

### 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.
- Ten Gallon Kit: 5 gallons of 'A' side and 5 gallons of 'B' side.

**Mixing – PV 340** must be spray applied using approved 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.

**Shelf Life** - One year, in original unopened factory containers, under normal storage conditions of 55°F to 95°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** - Read Material Safety Data Sheets before using. Available @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

**Preparation and Installation** - Regard **PolyVers** specifications for **PV 340**, 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.