



PolyVers International  
87 Shawnee Avenue  
Kansas City, KS 66105  
(913) 321-9000  
(913) 321-1490 (fax)

# Product Data Sheet

## **PV 330** **Abrasion Resistant** **Spray Polyurea**

**Product Description - PolyVers PV 330** is a fast set, rapid curing, 100% solids, flexible, two-component abrasion resistant polyurea elastomer spray coating material. **PV 330** may be used by itself or in combination with other materials to produce coatings, liners, wearing courses, resilient surfaces on metal and other substrates. Its extremely fast gel time makes it suitable for applications down to -20°F without special conditioning of the component resins and isocyanates. **PV 330** produces an extremely tough film at all thicknesses. Single or multiple pass applications produce films from 10 mils to 1,000 mils without appreciable sag or runs. **PV 330** may be applied in all positions and to any properly prepared substrate. **PV 330** is inert, it will not hydrolyze, leach, or contaminate other materials, and is bondable and paintable. **PV 330** is relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions.

**Uses - PolyVers PV 330** is a superior metal coating material designed specifically for industrial applications receiving constant or intermittent attack from contained materials, most corrosive substances and abrasive action. **PV 330** may be used to coat any properly prepared substrate. **PV 330** is flexible, accommodating to movement of the substrate, yet strong enough to remain intact under all conditions except major structural dislocations. With or without reinforcements, **PV 330** may be used in transitional areas with confidence. **PV 330** may be used in interior or exterior applications. **PV 330** is recommended for repair of other films, may be applied to metal and other substrates, in new construction and in cold weather conditions.

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

- Abrasion Resistant Steel Liners
- Metal Parts
- Tank Linings
- Flooring

### **Advantages -**

- 100% Solid, No VOC's
- 1:1 Mix Ratio by Volume
- Rapid Cure
- Fast Return to Service
- Applied by Plural Component Spray
- Odorless
- Temperature Range from -20°F to 300°F
- USDA approved for direct food contact

### **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	55
Elongation	ASTM D412	200-275%
Tensile Strength, psi	ASTM D412	2,500-3,000 psi
Tear Strength	ASTM 624	480 pli
Moisture Vapor Transmission	ASTM E-96	0.02 perm
Abrasion Resistance, weight loss, H-18 wheel	ASTM D-4060	125 mg
Gel Time		10 seconds
Tack Free		15 seconds

**Limitations - PV 330** 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

Note: 1604 mil inches per gallon. Totally dependent on substrate texture and condition.

### Packaging -

- **Drum Kits:** 53 gallons of 'A' side and 53 gallons of 'B' side - Drum containers filled by weight, volume is closely approximated.

**Mixing - PV 330** 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. Consult **PolyVers**.

**Shelf Life** - One year, in original, unopened factory containers, under normal storage conditions of 50°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** - Review Material Safety Data Sheets @ **PolyVers.com**

Basic safety for personal protection is:

- Long-sleeve overalls or disposable Tyvex overalls
- Rubber gloves
- Splash shield or safety glasses with splash guards
- Respirator
- Rubber or leather boots
- Do not use near high heat or open flame
- Do not take internally
- Keep out of the reach of children

**Surface Preparation and Application** - Please review the Material Processing & Handling Information for preparation and application procedures. Substrate priming is not required on all substrates, consult **PolyVers** for recommendations. Also, please consult the **PolyVers** Spray Gun Configuration Recommendation PDF for specific modules and tips.

### 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.