

POLYUREA



**Rapid Curing
Elastomer Sealants & Coatings
for the Protection and
Enhancement of Industrial
Infrastructure**



**Polyurea Systems for Industrial and
Commercial Applications**

**Polyurea
Technology
for your
World**

PolyVers Polyurea Systems



When you need a product that is moisture insensitive, flexible, chemical and abrasion resistant, cures in seconds or minutes even at sub-zero temperatures, you need polyurea. **PolyVers** offers the most extensive line of polyurea sealants and coatings and technical coatings available in today's market. If you require quick repair of concrete cracks, damaged control joints or spalls, the **PolyVers** line of Self Leveling products will produce superior results. If there are only hours to spare for your metal or concrete coating project, one of the **PolyVers** FastSet Spray polyurea systems will solve your problem. Whether your application is interior or exterior, PolyVers products allow rapid, year-round, labor-saving and cost effective installation. **PolyVers** products are: 100% solids, no VOC, and USDA/FSIS certified. UV stable, NSF-61 compliant, and color fast systems are available in custom colors. All **PolyVers** products cure in sub-freezing temperatures and all polyureas and their associated primers and sealer products cure below zero.



VERSATILE, DURABLE, RELIABLE—NEED WE SAY MORE!



Special polyurea systems for water features and aquatic ponds

Major Supplier of Oil and Gas Transmission Pipe Coatings and Secondary Containment Liner Systems that meet the requirements of ULC/ORD-C58.9

Special Use

PolyVers provides a potable water approved coating, PV AquaVers 405, for use wherever ANSI/NSF-61.5 regulations are required. This easy to apply coating is available to our applicators for use in aquatic features, water treatment and storage facilities and industrial processes.

TYPICAL PRODUCT USES

- SEWERAGE TREATMENT
- PARKING DECKS
- BALCONIES
- INDUSTRIAL FACILITIES
- GEOTEXTILE APPLICATIONS
- FOOD PROCESSING PLANTS
- COLD STORAGE FACILITIES
- REFINERIES
- OIL & GAS PIPELINES
- FUEL STORAGE FACILITIES
- BOTTLING & CANNING PLANTS
- PULP & PAPER MILLS
- WATER TREATMENT PLANTS
- ASBESTOS ENCAPSULATION
- METAL & CONCRETE ROOFING
- COMPOSITE ROOFING
- BELOW GRADE WATERPROOFING
- DAMPPROOFING
- SLUDGE PITS
- TOXIC WASTE CONTAINMENT
- PRIMARY CHEMICAL CONTAINMENT
- MANUFACTURING PLANTS
- SECONDARY CHEMICAL CONTAINMENT
- MINING
- OFF SHORE PLATFORMS
- RAIL & VEHICULAR DECKS



Saw or Clean



Prime

Aromatic Self Leveling

~PV 38 Joint Sealant & Spray Polyurea

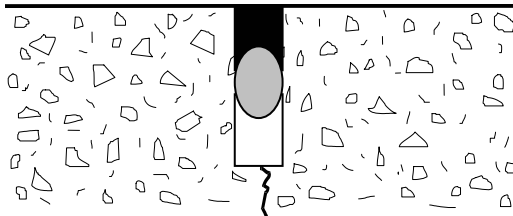
Self-leveling, 100% solids, flexible, two component, rapid curing polyurea elastomer joint sealant material and low temperature, low pressure spray material. Designed for 25% movement of installed joint width. Recommended maximum joint opening 3/4 inch.

~PV 75 Joint Filler & Ambient Cure Spray Polyurea

Self-leveling, 100% solids, flexible, two component, rapid curing polyurea elastomer joint filler and low temperature, low pressure spray material. Designed for 10 - 15% movement of installed joint width.



Fill



Typical Joint Configuration



Shave



Pump Grade



Cartridges

Aromatic Spray

~PV 320 Elastomeric Polyurea

Rapid cure aromatic flexible polyurea for concrete coatings, manholes and liners, secondary containment, wastewater, sewage treatment plants. 250% elongation. Longer gel time for improved surface wet-out. For applications requiring broadcast for anti-slip, higher gloss and smoother finishes.

~PV 350 Elastomeric Polyurea

450% elongation elastomeric polyurea, excellent metal and concrete coating. Increased toughness with good chemical resistance. Longer gel time for improved surface wet-out. For applications requiring broadcast for anti-slip, higher gloss and smoother finishes.

~PV 355ss Slow Set Polyurea

100% solids elastomeric polyurea developed for applications requiring added strength and abrasion resistance. This slow set system allows ample time to broadcast aggregate onto the surface to provide anti skid characteristics.

~PV 380 Elastomeric Polyurea

100% solids elastomeric polyurea developed for applications such as geotextile lining membranes. Volatile free and odorless system applied 1:1 mix ratio with plural component spray equipment.



Aliphatic Color Stable

~PV 42D ColorFast Coating

ColorFast is a 100% solids, flexible, two component modified aliphatic elastomer spray applied coating material. PV42D is autocatalytic, containing no solvents, hardeners, or diluents. PV42D is used by itself or in combination with other materials to produce coatings and liners on concrete, metal, and other suitably prepared substrates. Its composition makes it suitable for applications requiring color stability. PV42D produces an extremely tough film at any thickness. PV42D may be applied in all positions.



~PV 425 Hand Applied Polyurea

100% solids, aliphatic polyaspartic polyurea based on new technology. Displays virtually no odor. This product has been specifically formulated as a topcoat and as a stand-alone coating. This coating is extremely color stable and displays excellent UV weathering characteristics. Can be applied in temperatures ranging from -20°F to 200°F. When fully cured, it will produce a highly abrasion resistant, high-gloss, smooth finish. Used by itself or in combination with other materials to produce coatings and liners on concrete, metal or other suitably prepared substrates. Its composition makes it suitable for applications requiring color stability. Produces an extremely tough film at any thickness. May be applied in all positions.

Technical Coatings

~PV AquaVers 405 Spray Polyurea

Fast set, rapid curing, 100% solids, flexible, two-component pure polyurea elastomer spray coating material. Potable water approved in accordance with ANSI/NSF 61. Used by itself or in combination with other materials to produce coatings, liners, wearing courses, and resilient surfaces on concrete 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. Produces an extremely tough film at all thicknesses. Single or multiple pass applications produce films from 10 mils to 1000 mils without appreciable sag or runs. May be applied in all positions and to any suitably prepared substrate.

Inert, it will not hydrolyze, leach, or contaminate other materials, and is bondable and paintable. Relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions.



~PV 701 Rigid Pipe Coating

100% solids, two component polyurethane/polyurea coating with a 1:1 by volume mix ratio. Specifically designed as a rigid coating for structural applications with excellent corrosion resistance, abrasion resistance and full compatibility with cathodic protection systems. The fast cure at ambient conditions make it an ideal coating for in-plant as well as over the ditch application.

~PV 705 Spray Polyurea

Fast set, rapid curing, 100% solids, flexible, two-component polyurea elastomer spray coating material. Used by itself or in combination with other materials to produce liners 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. Produces an extremely tough film at all thicknesses. Single or multiple pass applications produce films from 10 mils to 1000 mils without appreciable sag or runs. May be applied in all positions and to any suitably prepared substrate. Inert, it will not hydrolyze, leach, or contaminate other materials, and is bondable and paintable. Relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions. Available in special formulations for use as cathodic disbondment resistant membrane.

~PV VT-40 Finish Coat

A combination of Viton and PTFE, offering outstanding chemical, temperature, permeation, and abrasion resistance. Designed to be used in combination with LC-25 Lock Coat and **PolyVers** Aromatic Spray materials. Heavy solids protective top coating suitable for most service environments. May be used with all **PolyVers** rapid curing polyurea sealants and spray coatings systems. Designed for use in severe duty environments subject to chemical and heat exposures.

~PV LC-25 Lock Coat

Solvent borne Fluoroelastomer, offering outstanding chemical, temperature, permeation, and abrasion resistance. Designed to be used as a lock coat after the application of **PolyVers** Aromatic Spray materials. Provides superior adhesion for the VT-40 Finish Coat. Medium viscosity solvent borne coating suitable for most service environments. May be used with all **PolyVers** rapid curing polyurea sealants and spray coatings systems. Designed for use in severe duty environments subject to chemical and heat exposures.



Primers



~PV 30 Cold Temperature Epoxy Primer

Low viscosity, penetrating concrete primer used with PV 320 or PV 350 over new and damaged concrete. 1:1 mix ratio, also available in vertical grade. For temperatures above 70 ° F.

~PV 32 Cold Temperature Epoxy Primer

Low temperature cure version of PV30, used when temperature conditions are between 40 ° F and 55 ° F. Also available in vertical grades.

~PV cRUST Rust Converter/Primer

Specially formulated, low solids, single component, rust converter. Its low viscosity contributes to ease of application on steel and other ferrous substrates. Provides a superior primer for application of **PolyVers** polyurea products.

~PV1 Low Temperature Penetrating Primer

Specially formulated, low solids, single component, rapid curing primer designed to provide positive cure to -25°F and extremely rapid cure at room temperature. Its low viscosity contributes to ease of penetration on masonry and concrete substrates. Bonds to subzero and damp concrete as well as **PolyVers** polyurea products.

Accessory Products

~PV Moisture Barrier Deep Penetrating Moisture Barrier

Single component, modified silicate solution supplied as a ready-to-use moisture barrier and sealer for concrete. PV Moisture Barrier is water soluble and non-toxic. PV Moisture Barrier reacts with available alkali to form a crystalline structure, densifying concrete at the depth of penetration, reducing vapor and moisture drive, and allowing application of coatings and sealants to on-grade substrates. Freeze/thaw characteristics of concrete will be enhanced when PV Moisture Barrier is used by itself or in combination with polyurea coatings and sealants.

~PV Sealer Penetrating Surface Sealer

Single component, non-toxic, non-flammable, water based penetrating surface sealer that completely seals, waterproofs, and protects most materials, alkaline or non-alkaline, porous and non-porous.

~PV PrimerMender

Specially formulated polymer rapid repair product and primer. In its basic low viscosity formulation PrimerMender will penetrate concrete and other porous substrates. In its highly aggregate loaded high viscosity configuration PrimerMender will act as a repair mortar and parging compound that will hide bug-holes in concrete substrates and promote the adhesion of polyurea coatings



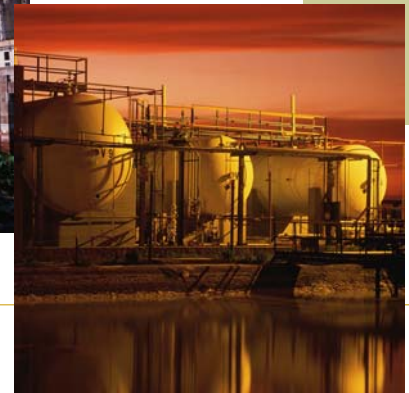
Polyurea International
Producers of Pure Polyurea—Worldwide



Durability



Versatility



Constructability

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