



**POLYCOAT  
PRODUCTS**

A Division of American Polymers Corp.

# **Polyurea & Spray Elastomers**

Aromatic Polyurea | Aliphatic Polyurea | High or Low Pressure Hybrid  
Polyurea Caulk | Polyurethanes | Pure Polyurea | Specialty Polyureas

## **FORMULATING SOLUTIONS**





## Specialty Polyurea

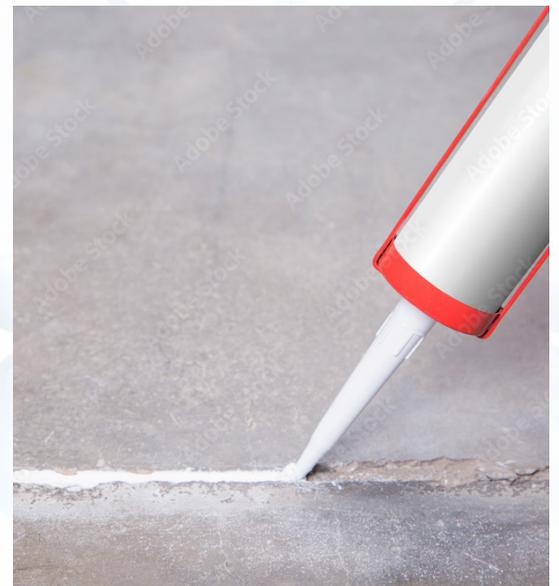
They offer exceptional performance in tensile strength, high-tear, high-chemical and impact resistance in severely demanding applications against abrasion. The TuffShield™ series offers 100% solids, flexible, two component, high-performance spray elastomers.

Product	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)
Enviroshield® 1005	4200 ± 300	300 ± 50	400 ± 50	
Polyeuro® 8245	2000 ± 200	80 ± 20	300 ± 50	50 ± 5 Shore D
Polyliner 700				80 ± 5 Shore D
TuffShield™ 801	3800 ± 300	375 ± 50	425 ± 50	50 ± 5 Shore D
TuffShield™ II HAR	3200 ± 300	275 ± 50	350 ± 50	42 ± 5 Shore D
PipeShield™ HAR	4500 ± 500	5 ± 2	300 ± 50	77 ± 3 Shore D

## Caulking Compounds

Poly-Caulk® series offers polyurea polyurethane, plural-component caulking material for use on interior/exterior concrete surfaces to repair random cracks and control joints. It offers application specific products in areas where down time is limited.

Product	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)
Poly-Caulk® 82	1500 ± 200	300 ± 50	275 ± 50	80 ± 5 Shore A
Poly-Caulk® HM	2000 ± 200	600 ± 50	425 ± 50	80 ± 5 Shore A
Poly-Caulk® JF-75	600 ± 50	240 ± 50	400 ± 50	75 ± 5 Shore A
Poly-Caulk® JF-85	800 ± 50	240 ± 50	400 ± 5	80 ± 5 Shore A
Poly-Caulk® JS-45	325 ± 50	425 ± 50	80 ± 10	45 ± 3 Shore A
Poly-Caulk® JS-60	800 ± 50	500 ± 50	200 ± 10	60 ± 5 Shore A
Poly-Caulk® PX27GG	300 ± 50	500 ± 50	50 ± 5	40 ± 5 Shore A
Poly-Caulk® PX27SL	300 ± 50	800 ± 50	50 ± 5	30 ± 5 Shore A



Polycoat offers quick setting, 100% pure aromatic and aliphatic polyureas that can be applied to suitably-prepared concrete and metal surfaces. The Polyeuro® 5000 series is aromatic and non-color stable, whereas the Polyeuro® 7000 series is aliphatic and color stable. These coatings can be applied in single or multiple applications and are less sensitive to moisture and temperature, allowing applications at lower temperatures. Polycoat has various polyurea products that offer a wide range of physical properties to help meet the application parameters of different industries.

## Aliphatic Polyurea

These polyurea products have a high degree of color stability upon UV exposure. In addition, they offer exceptional physical properties which add durability and flexibility to the coating.

Product	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)
Polyeuro® 7502	3300 ± 200	300 ± 50	400 ± 50	50 ± 5 Shore D
Polyeuro® 7851	1600 ± 200	350 ± 50	300 ± 50	85 ± 5 Shore A
Polyeuro® 7901	3200 ± 200	450 ± 50	325 ± 50	90 ± 5 Shore A



## Aromatic Polyurea

These polyurea products are functionally unchanged with UV exposure, but may be susceptible to discoloration due to aromatic properties. Polyeuro® 5502-18PW is approved as a potable water lining as per ANSI/ NSF 61 Standard. Polyeuro® 5502-F, 5502-FG (Food Grade), 5602 are a fast setting, rapid curing, 100% solids, and flexible.

Product	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)
Polyeuro® 5502	3000 ± 200	400 ± 50	450 ± 50	50 ± 5 Shore D
Polyeuro® 5502-18PW	3000 ± 200	400 ± 50	450 ± 50	50 ± 5 Shore D
Polyeuro® 5502 F	3000 ± 200	375 ± 50	450 ± 50	50 ± 5 Shore D
Polyeuro® 5502 FG	3500 ± 200	400 ± 50	450 ± 50	50 ± 5 Shore D
Polyeuro® 5602	3000 ± 200	275 ± 50	450 ± 50	60 ± 5 Shore D
Polyeuro® 5851	3500 ± 200	350 ± 50	400 ± 50	85 ± 5 Shore A
Polyeuro® 5901	2500 ± 200	400 ± 50	400 ± 50	90 ± 5 Shore A
Polyeuro® 5901-F	2500 ± 200	400 ± 50	400 ± 50	90 ± 5 Shore A
Polyeuro® 6881	1900 ± 150	375 ± 25	300 ± 25	90 ± 5 Shore A



## Polyaspartic Polyurea

Polycoat Staingard is a series of products offering the benefits of polyaspartic-polyurea technology. These coatings have properties that include superior color and gloss retention, with low VOCs and odor.

Product	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)
Polycoat Staingard 7000 (Pigmented)	3000 ± 200	50 ± 10	400 ± 20	65 ± 5 Shore D
Polycoat Staingard 7000 (Clear)	3000 ± 200	70 ± 10	450 ± 50	65 ± 5 Shore D
Polycoat Staingard 7072 (Pigmented)	3500 ± 300	50 ± 20	400 ± 20	65 ± 5 Shore D
Polycoat Staingard 7072 (Clear)	3500 ± 300	70 ± 20	400 ± 50	65 ± 5 Shore D
Polycoat Staingard 7072SC (Pigmented)	3500 ± 300	50 ± 20	400 ± 20	65 ± 5 Shore D
Polycoat Staingard 7072SC (Clear)	3500 ± 300	50 ± 10	400 ± 50	65 ± 5 Shore D
Polycoat Staingard 8072SC (Clear)	3500 ± 300	50 ± 10	400 ± 20	65 ± 5 Shore D
Polycoat Staingard 9072SC (Clear)	3500 ± 300	50 ± 10	400 ± 30	70 ± 5 Shore D



## High Pressure Hybrids

The Polyureo<sup>®</sup> MPL family is a two component, 1:1 ratio, fast-set gel, modified-polyurea liner system for general purpose on metal, concrete, fiber-glass and wood surfaces. Polyureo<sup>®</sup> MPL-85 ALU is a specially tinted elastomer for roofing application as a good reflective topcoat.

Product	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)
Polyureo <sup>®</sup> MPL-11	2700 ± 200	225 ± 20	400 ± 50	50 ± 5 Shore D
Polyureo <sup>®</sup> MPL-11 FR	1600 ± 200	45 ± 20	350 ± 50	50 ± 5 Shore D
Polyureo <sup>®</sup> MPL-80	2000 ± 300	300 ± 25	300 ± 50	80 ± 5 Shore A
Polyureo <sup>®</sup> MPL-85 ALU	2500 ± 200	300 ± 20	225 ± 25	85 ± 5 Shore A
Polyureo <sup>®</sup> MPL-90	4500 ± 500	325 ± 50	300 ± 50	90 ± 5 Shore A
Polyureo <sup>®</sup> MPL-501	2800 ± 200	200 ± 20	400 ± 50	55 ± 5 Shore D
Polyureo <sup>®</sup> MPL-558	2800 ± 200	200 ± 20	400 ± 50	55 ± 5 Shore D



## Low Pressure Hybrids

Polyeuro® LP series is a low pressure, hybrid polyurea system for general purpose use in waterproofing and maintenance applications.

Product	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)
Polyeuro® LP-11	2000 ± 300	250 ± 50	175 ± 25	90 ± 3 Shore A
Polyeuro® LP-12	1300 ± 200	200 ± 50	175 ± 25	90 ± 3 Shore A



## Polyurethane Spray Coatings

Polyurethane spray coatings are typically used as a coating or liner in water tanks, secondary containment and waste-water management applications. Polyeuro® 1050H is ANSI / NSF-61 approved for direct contact with potable water. PipePro Ultra is a direct to metal, quick set, two component, 100% solids polyurethane designed to protect pipelines from corrosion and abrasion.

Product	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)
PipePro Ultra	5000 ± 500	5 ± 2	450 ± 50	80 ± 3 Shore D
Polyeuro® 1050H	2800 ± 200	25 ± 10	400 ± 50	65 ± 5 Shore D

## Theme and Prop

These series of hybrid polyurea-polyurethane elastomeric coatings offer unique coatings with an impact resistant shell that is spray applied to add a durable, abrasion-resistant finish to most lightweight foams, expanded polystyrene, and most other lightweight substrates.

Product	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)
Polyeuro® MH-651FR	3000 ± 300	75 ± 15	350 ± 50	65 ± 5 Shore D
Polyeuro® MH-751FR	3600 ± 300	30 ± 5	575 ± 50	75 ± 5 Shore D
Polyeuro® MH-752	3700 ± 200	30 ± 10	450 ± 50	75 ± 5 Shore D
Polyeuro® MH-752HH	4000 ± 200	15 ± 5	450 ± 50	75 ± 5 Shore D
Polyeuro® MH-872	4500 ± 200	10 ± 5	500 ± 50	85 ± 3 Shore D



# Industrial Coating and Spray Elastomer Product Technologies and Industries We Serve

**Solutions Start with Quality Chemistry**

Visit our new website [polycoatusa.com/industrial-coatings.php](http://polycoatusa.com/industrial-coatings.php) for more details and interactive wheel graphic

## Product Technologies

Low / High Pressure Hybrids

Caulking Compounds

Primer

Theme & Prop

Polyaspartic Polyurea

Polyurethane Spray Coatings

Pure Polyurea

Specialty Coatings

Construction

Mining Process Systems & Facilities

Containment Liners for Protection

Oil & Gas Industry

## Markets We Serve

Defense

Marine Environments & Water Systems

Industrial & Commercial Sectors

Infrastructure & Transportation

## Unprecedented Service

Across the United States, Polycoat Products' warehouses offer over 1,000,000 square feet of manufacturing space. We stock products so that our specialized formulations can reach you within 72 hours of ordering. Rest assured - our seasoned veterans constantly work in conjunction with your chemical engineers in the lab to provide solutions out in the field.

## Other Products Manufactured by Polycoat Products

Epoxy Coatings

Theming Systems

Polyurethane Spray Foam

Tire Flatproofing

Waterproofing

Recreational Coatings

TDI & MDI Cast Elastomers

Select systems are:



Toll Manufacturing Available | Private Lab Account Inquiries are Welcome | Seeking Experienced Independent Representatives Globally

## Contact Us



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