

# POLYEURO®, POLY-CAULK®, TUFFSHIELD™ and POLYASPARTICS

High Performance, Spray Applied, Elastomeric Coatings for Industrial Applications, Secondary Containments and Waterproofing

Polycoat Products has been a leading manufacturer of high performance, Polyurea and Polyurethane coatings for over three decades. Polycoat's strong leadership, pioneering technology, and innovation have resulted in some of the most patented coating applications in the industry. With our strong R&D, modernized manufacturing plant, and quality control, we market a wide variety of proprietary single-plural component, Aromatic-Aliphatic polyurea-polyurethane (PU-PUR) coatings. Complete coating systems to protect and waterproof many different types of substrates running the gamut of harsh environmental and service conditions.

The **Polyeuro®** series consists of 100% solids, fast-setting, plural component elastomeric Polyurea and Polyurethane coatings. The series includes Aliphatic, Aromatic and Hybrids systems which are spray-applied using either a High or Low pressure Plural component spray machine with impingement mixing. The extremely quick gel time makes the Polyeuro® family suitable for applications in temperature as low as -20°F. These coatings have been used extensively in various industrial, marine, mining and commercial applications including as a protective lining in ship cargo holds, secondary containments, clarifier tanks, potable water tanks, and on warehouse floors, decks, balconies, automobile showrooms, Prop and Theme Industry, Movie sets, steel-concrete bridges, lead encapsulations, structure steel, bridges, and more.

The **Poly-Caulk®** series comprises the line of our 100% solids, self-leveling, Polyurea and Polyurethane caulking

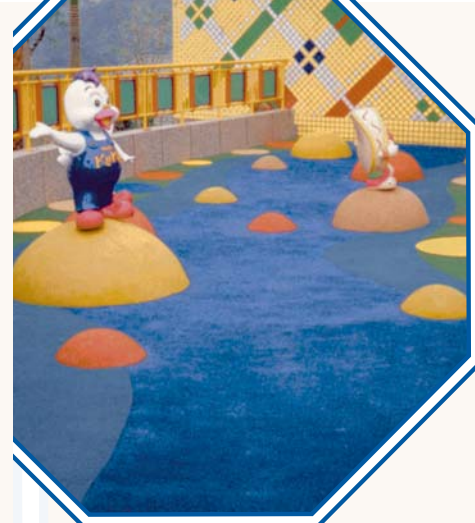
compounds for a wide variety of applications such as interior-exterior concrete control joints or repairing random cracks. It provides application-specific products like Poly-Caulk® JF for Jet Fuel Resistance and general purpose caulking compounds.

Our **Staingard** series embodies the properties of Polyaspartic Polyurea technology, meeting the demands for superior color and gloss retention, as well as durability against weathering and abrasion resistance.

The harsh demands of industrial environments today including high-abrasion, impact and hydro carbon resistance are met by **TuffShield™** systems. These tough, though flexible 100% solids, spray elastomeric systems provide exceptional hydrolytic stability, excellent abrasion, tear and impact values.

Today, Polycoat's products are used in a variety of climates of Alaska's North Slopes to Hawaii's tropical weather, from mines in South America to the Siberian tundra, as well as in many other parts of world such as Australia-New Zealand, South East Asia, Europe, and the Middle East. Polycoat's technical staff and team of representatives are just a phone call away to offer guidance and assistance on your next project.

Please visit our website <http://www.polycoatusa.com> for complete information or call us to access our extensive product line. We appreciate your business and strive to serve you in the most efficient manner.



Theme Park  
Taiwan

## Theme and Prop

Our unique coatings offer 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.

	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)
Polyeuro® MH 752	3700 +/- 200	40 +/- 20	450 +/-50	75 +/-5D
Polyeuro® MH 752 FR	1700 +/- 200	10 +/- 5	350 +/-50	75 +/-5D
Polyeuro® MH 752 HH	4000 +/- 200	20 +/- 5	450 +/-50	75 +/-5D



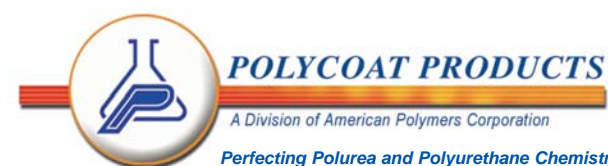
Concrete Weights  
Santiago, Chile

## Specialty Polyurea\*

The **TuffShield™** series offers 100% solids flexible two component high performance spray elastomers designed to give exceptional values including tensile, high tear, high chemical and impact resistance in severe demanding applications against abrasion and corrosion and hydro carbons. **PolyEuro® 8245** gives excellent high acid and base resistance.

Product	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)	Abrasion Resistance (Wt Loss)
TuffShield™ 801	3800 +/- 500	375 +/- 50	425 +/-50	50 +/- 5 D	7.1 mg on CS 17 wheel
TuffShield™ HAR	3200 +/- 300	275 +/- 50	350 +/-25	42 +/- 3 D	39 mg on H-18 wheel
TuffShield™ RH	3000 +/- 200	100 +/- 20	N/A	65 +/- 5 D	N/A
Polyeuro® 8245	2000 +/- 200	100 +/- 20	200 +/-20	50 +/- 5 D	N/A

\*Provisional Data



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Aromatic  
Polyurea

Aliphatic  
Polyurea

Hi or Low  
Pressure

Polyurea  
Caulk

Polyurethanes

Pure Polyurea

Fire Resistant

Hybrids

Specialty  
Polyureas



**POLYCOAT PRODUCTS**

A Division of American Polymers Corporation

Perfecting Polyurea and Polyurethane Chemistry.

## Polyurea & Spray Elastomers



## Aliphatic Polyurea

These are the Polycoat Polyurea products which have a high degree of color stability upon UV exposure.

Product	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)
Polyeuro® 7502	3300 +/- 300	220 +/- 20	400 +/- 20	50 +/- 5 D
Polyeuro® 7502 FR (Fire Retardant)	2300 +/- 300	200 +/- 50	225 +/- 25	50 +/- 5 D
Polyeuro® 7901	2300 +/- 300	350 +/- 50	325 +/- 50	90 +/- 5 A



Golf Creek Club  
Dubai

Polycoat offers quick setting, 100% pure Aromatic and Aliphatic polyureas that can be applied to suitably prepared concrete and metal surfaces. The Polyeuro® 5xxx series is aromatic, non color stable whereas the Polyeuro® 7xxx series is aliphatic color stable. These coatings can be applied in single or multiple applications and are relatively insensitive to moisture and temperature allowing applications in most temperatures.

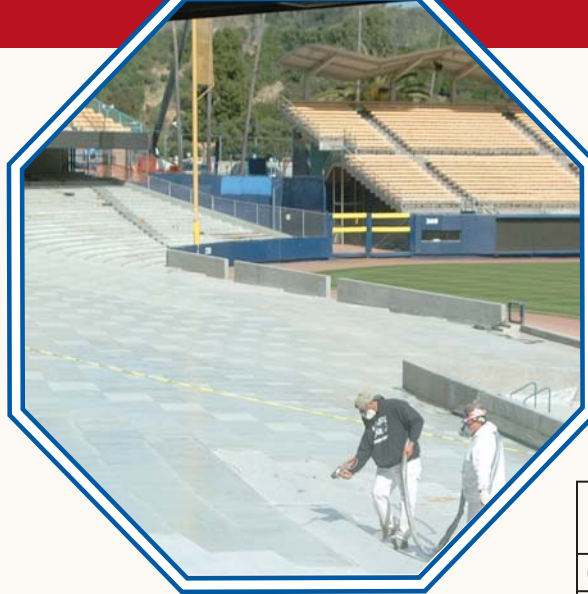


Sewage Treatment  
USA

## Aromatic Polyurea

These are the Polycoat's Polyurea products which are functionally unchanged upon UV exposure, although there may be discoloration. Polyeuro® 6881 is relatively slow set polyurea whereas Polyeuro® 5502 NSF is approved as a potable water lining as per ANSI / NSF 61 Standard.

Product	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)
Polyeuro® 5502	3500 +/- 200	450 +/- 50	450 +/- 50	50 +/- 5 D
Polyeuro® 5602	2800 +/- 200	300 +/- 50	285 +/- 50	60 +/- 5 D
Polyeuro® 5901	2500 +/- 50	600 +/- 50	450 +/- 50	85 +/- 5 A
Polyeuro® 5502 NSF	3500 +/- 200	400 +/- 50	450 +/- 50	50 +/- 5 D
Polyeuro® 6881	1900 +/- 150	375 +/- 25	300 +/- 25	90 +/- 5 A



MLB Stadium, CA  
USA

## Polyaspartic Polyurea

Polycoat-Staingard is a two component liquid applied aliphatic Polyaspartic coating with high gloss retention and UV stability. It is used as topcoat over aromatic Polyurea, Polyurethane or hybrid coatings systems.

Polycoat-Staingard - 6000	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)
Clear	3000 +/- 200	70 +/- 10	400 +/- 30	65 +/- 2 D
Pigmented	2600 +/- 200	30 +/- 10	375 +/- 50	65 +/- 2 D

Polycoat-Staingard - 6072	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)
Clear	2500 +/- 200	100 +/- 25	300 +/- 50	50 +/- 5 D
Pigmented	2300 +/- 300	50 +/- 25	225 +/- 35	50 +/- 5 D



Manhole Rehabilitation  
USA

## High Pressure Hybrids

The Polyeuro® MPL family is a two component, 1:1 ratio, fast gel modified polyurea liner system for general purpose on metal, concrete, fiber glass and wood surfaces. Whereas Polyeuro® MPL-82 ALU is a specially tinted elastomer for roofing application as a topcoat.

Product	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)
Polyeuro® MPL 11	2700 +/- 300	225 +/- 20	400 +/- 40	50 +/- 5 D
Polyeuro® MPL 55	2700 +/- 300	200 +/- 20	400 +/- 40	55 +/- 5 D
Polyeuro® MPL 85	1500 +/- 300	200 +/- 20	200 +/- 40	85 +/- 5 A
Polyeuro® MPL 11 FR	1600 +/- 200	20 +/- 10	350 +/- 50	55 +/- 5 D
Polyeuro® MPL 82 ALU	2300 +/- 200	300 +/- 20	210 +/- 30	80 +/- 5 A

## 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-12	1300 +/- 200	200 +/- 50	200 +/- 25	90 +/- 5 A
Polyeuro® LP-11	2000 +/- 300	250 +/- 50	200 +/- 25	91 +/- 5 A
Polyeuro® LP-1188	1300 +/- 200	200 +/- 50	200 +/- 25	91 +/- 5 A
Polyeuro® LP-12-HE	2800 +/- 200	430 +/- 50	220 +/- 25	85 +/- 5 A



Clarifier Tank  
USA

## Polyurethane Spray Coatings

Polyurethane spray coatings are typically used as a coating or lining in water tanks, secondary containment and waste water management applications. Polyeuro® 1050 H is ANSI / NSF-61 approved for direct contact with potable water.

Product	Tensile (psi)	Elongation (%)	Tear (pli)	Hardness (Shore)
Polyeuro® 1050 H	2800 +/- 200	35 +/- 10	400 +/- 50	70 +/- 5 D

## Caulking Compounds

Poly-Caulk® series offers Polyurea-Polyurethane plural 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® 50A	425 +/- 50	550 +/- 50	50 +/- 10	50 +/- 5 A
Poly-Caulk® 80	1500 +/- 50	300 +/- 50	275 +/- 10	80 +/- 2 A
Poly-Caulk® HM	2000 +/- 200	600 +/- 50	425 +/- 50	80 +/- 5 A
Poly-Caulk® PX-27 (self-level)	300 +/- 50	800 +/- 50	50 +/- 5	30 +/- 5 A
Poly-Caulk® PX-27 Gun Grade	200 +/- 50	600 +/- 50	50 +/- 5	30 +/- 5 A
Poly-Caulk® JF	400 +/- 50	900 +/- 100	60 +/- 10	15 +/- 5 A



Roof Deck Car Park  
Australia



Car Park  
Australia