



**POLYCOAT
PRODUCTS**

A Division of American Polymers Corp.

Prepolymers

Specialty Curatives

**Rigid and Flexible
Castable Foam Systems**

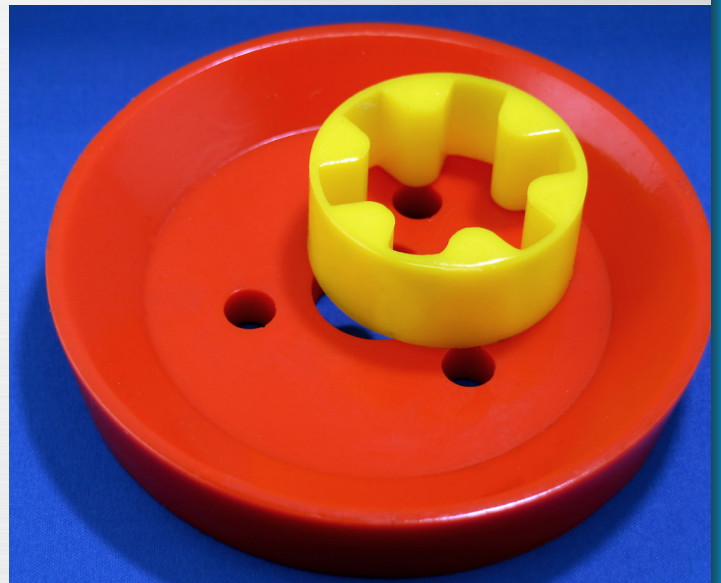


**Castable Elastomer
Systems Division**

**Low Temperature
Castable Systems**

**Room Temperature
Castable Systems**

**High Durometer
Castable Systems**



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**CONSTRUCT WITH
CHEMISTRY**

POURABLE FOAMS

Polycoat Products carries a large variety of flexible, semi-rigid and rigid castable foams for a variety of applications. Our talented team of chemists are able to formulate foams to meet your exact processing needs and specifications.

Flexible Foams

Polycoat Products flexible foams are available anywhere between three pounds and twenty pounds per cubic foot. These foams are generally use water or pentane as a blowing agent depending on customer application. These are popular for furniture seat cushioning, automotive and motorcycle seats and a variety of other applications.



Semi-Rigid Foams

Polycoat Products offers a wide variety of semi-rigid foams that are used in applications where extra stiffness is needed as opposed to flexible foams. Mostly water blown, These materials range between 0.5 to 10 pounds per cubic foot and are used for packaging, movie set and prop design, etc.



Rigid Foams

Polycoat Products offers a wide variety of rigid foams, very stiff foams ranging from 3 to 30 pounds per cubic foot. These foams use mostly water or Solstice LBA as a blowing agent and can be used in applications that require a rigid structure, such as doors, furniture, structure floats etc.

Density (Lbs/cubic ft.)	Cream Time (Seconds)	Rise Time (Seconds)	Attributes	Type
11-13	60	140	Self sealing when punctured, Can be handbatched	Semi-rigid
3.7-4.0	40-45	150	50/50 ratio ASTM E-84 Flame Certified	Rigid
2.2	10	30	No Ozone depleting chemicals, 15% renewable	Rigid



HIGH PERFORMANCE PREPOLYMERS

Polycoat Products manufactures an extensive array of both MDI and TDI prepolymers (i.e. Ethers, Esters, PTMEGs and PPGs). These include polyester, polyether, and aliphatic systems that range from 30A-75D on the durometer hardness scale. Our chemists pride themselves in their ability to not only adjust current products but also develop new ones to meet specific customer physical and processing specifications.

Wet Food Approved

Polycoat Products also offers a variety of FDA approved products, both in MDI polyether and MDI polyester, that are available between 60-90A. Among these includes a full line of Potable water certified resins that range from 85-95A.

Specialty Curatives

Polycoat Products offers a large variety of polyol and multifunctional curative blends for various low durometer applications, as well as your standard Curatives such as MBCA (Moca) Ethacure 300™ or 1,4 Butanediol. Ask your local sales representative for more information!

High Durometer Castable Systems

Polycoat Products also offer a variety of TDI/Polyether Prepolymers that are available in hardnesses up to 80D and 85D.

Specialty Systems

Polycoat Products offers H12MDI Aliphatic systems which show great light stability options as well as Polycaperlactones for resistance to water, oil, solvent, and chlorine.



EXPERTISE WILL HELP YOU CONFIDENTLY CONSTR

PC-FLEX SERIES

Polycoat Products new line of 1-1 TDI Room Temperature product ranges from 10A to 80A and can be processed and cured at ambient room temperatures. High Physical Properties make this new material durable and reliable. Long cure times help keep shrink to a minimum coupled with extended gel times for larger applications; these demold times can easily be increased by heating molds to fit your needs.

Technical Data

	Color	Hardness, Shore A, ASTM D2240	Resilience, % Rebound, ASTM D2632	Tear Strength, Die C, ASTM D624	Tensile Strength, ASTM D412	Elongation at Break, % ASTM D412	Mix ratio by volume A:B	Mix ratio by weight A:B	Side-A & B temperature	Mold temperature	Gel time* @ 80°F (27°C)	Cure time @ 80°F (27°C)
PC-Flex 10A	Yellow	10 ± 2	35	30 ± 10 pli	150 ± 50 psi	1000 ± 200	1:1	102:100	80 °F (27 °C)	80 °F (27 °C)	30 ± 5 mins	48 hrs
PC-Flex 20A	Orange	20 ± 2	44	70 ± 10 pli	400 ± 50 psi	1000 ± 200	1:1	104:100	80 °F (27 °C)	80 °F (27 °C)	30 ± 5 mins	48 hrs
PC-Flex 30A	Green	30 ± 2	46	65 ± 10 pli	600 ± 100 psi	1000 ± 200	1:1	104:100	80 °F (27 °C)	80 °F (27 °C)	25 ± 5 mins	24 hrs
PC-Flex 40A	Tan	40 ± 2	41	80 ± 10 pli	650 ± 100 psi	500 ± 100	1:1	103:100	80 °F (27 °C)	80 °F (27 °C)	25 ± 5 mins	24 hrs
PC-Flex 50A	Red	50 ± 2	48	100 ± 10 pli	900 ± 100 psi	550 ± 100	1:1	103:100	80 °F (27 °C)	80 °F (27 °C)	45 ± 5 mins	24 hrs
PC-Flex 60A	Blue	60 ± 2	48	140 ± 25 pli	1200 ± 200 psi	550 ± 100	1:1	103:100	80 °F (27 °C)	80 °F (27 °C)	60 ± 10 mins	24 hrs
PC-Flex 70A	Brown	70 ± 2	48	150 ± 25 pli	1100 ± 200 psi	550 ± 100	1:1	103:100	80 °F (27 °C)	80 °F (27 °C)	25 ± 5 mins	24 hrs
PC-Flex 80A	Black	80 ± 2	43	150 ± 25 pli	1000 ± 200 psi	500 ± 100	1:1	102:100	80 °F (27 °C)	80 °F (27 °C)	15 ± 5 mins	24 hrs

*Variety of gel times available



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 3001 East Pioneer Parkway
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ROOM TEMPERATURE CAST ELASTOMERS

Polycoat Products also manufactures a wide variety of room temperature products that can be processed at 75-85°F and range from 40A to 75D. These materials do not require post cure heat, allowing for simpler and faster processing times. Many of these products can be mixed by hand and/or processed through a variety of machines.

Custom Formulations

Polycoat Products has formulated numerous patented polyurethane systems, with over a thousand proprietary formulations. We can also custom blend systems to meet your specific needs and processing parameters. Polycoat Products prides itself on our R&D capabilities.

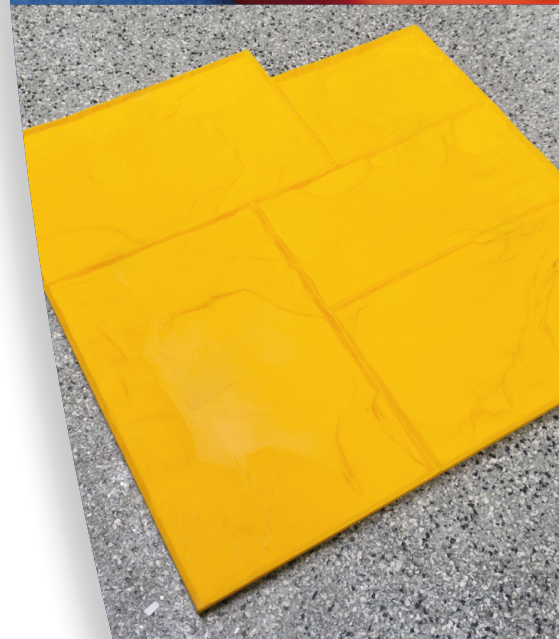
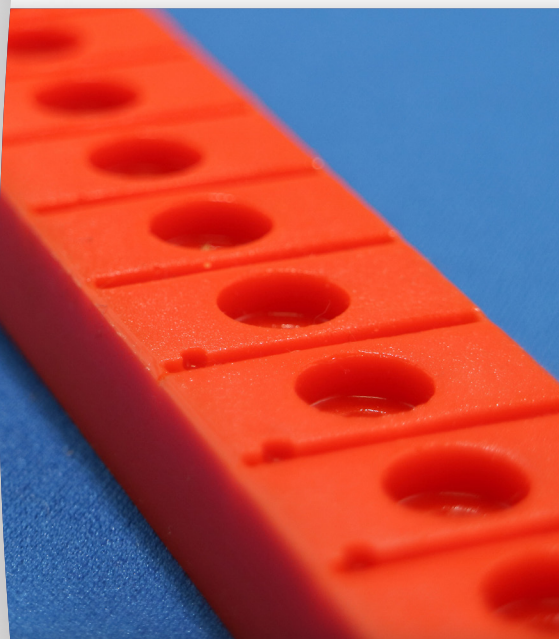
Spray Elastomers

Polycoat Products also offers a wide variety of spray elastomers and foams, please contact your local sales Representative for more information.



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Storied Quality

Polycoat Products has emerged the industry leader in high-performance castable polyurethane elastomers and prepolymers over nearly forty years of innovation in the lab. We specialize in providing high quality products with the quality hallmark of ISO 9001:2015 for our demanding customer base in a variety of industries.

Our focus is not just manufacturing many products. We invest time and research in formulating cost-competitive solutions for your construction needs. Whether industrial, residential, or commercial applications, our products have a range of chemical and physical properties to accommodate project requirements. Our chemistry team's extensive research and development efforts provide solutions for any type of specialized application.

State-of-the-Art Manufacturing

Nearly forty years of strong leadership, pioneering technology, and innovation have resulted in some of the most specialized polyurea coating applications and foam sprayable systems. We have nearly 1,000,000 square feet of manufacturing and warehousing space across six chemical facilities in three strategic locations across the United States to manufacture and warehouse large volumes. We ship our premium products globally and welcome inquires for private label and toll-blending opportunities. Our coatings are found in world landmarks, stadiums, resorts, luxury residential living, and other high-profile projects.

Other Products Manufactured by Polycoat Products

Liquid Applied Deck Coatings • Epoxy Coatings • Polyurethane Spray Foam • Industrial Coatings • Themecoats • Tire Flatproofing

Toll Manufacturing Available • Private Label Account Inquiries are Welcome • Seeking Experienced Independent Representatives Globally

CONSTRUCT WITH CHEMISTRY™



ISO 9001
CERTIFIED COMPANY

 **PRI Registrar**
PERFORMANCE REVIEW INSTITUTE



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