

HUNTSMAN

Enriching lives through innovation

Polyurethanes

Coating solutions portfolio

Hardness, flexibility and strength for every application and environment



A coating solution for every need

For over 50 years, Huntsman has provided innovative solutions that enhance the quality and performance of coatings used for industrial and specialty applications.

We support coatings companies looking to expand their product portfolios with new, ready-to-use systems; formulators who need specialty components with specific performance characteristics; and applicators as well as element manufacturers who require flexible, fast-curing coatings solutions to protect their products.

Whatever business area or industry you are in, we are ready to support you with the right expertise and resources, including testing and trials. No matter what you need from your coatings partner, whether it's standard or tailored solutions that deliver greater durability or flexibility, faster or slower cure times, usability in extreme environments, greater sustainability, or longer lifetimes, Huntsman has you covered.

Why choose Huntsman?



Science

Our POLYRESYST® polyurea and polyurethane systems can deliver a unique set of properties, and are the perfect choice for a wide variety of applications, including passive fire protection.



Sustainability

With POLYRESYST® bio-based system or mass-balanced MDI-based products, Huntsman offers more circular options that help you to meet your sustainability goals.



Partnership

We go the extra mile to support you with the expertise and capabilities you need for a solution that meets your specific requirements.

Engineered for your application

Huntsman's building blocks and POLYRESYST® coatings systems are developed to protect substrates used across numerous applications, industries and environments.

We provide a broad variety of options that cover the physical properties you need. In combination with proper surface preparation, this makes them ideal for all kinds of materials and nearly any application.

Our continued focus on innovation and development means that we are always expanding our portfolio to meet new customer needs. Our recent developments include bio-based coating system as well as fast curing solutions which can offer passive fire protection to many substrates.



Cutting-edge coatings technologies

Polyurea

Polyurea coatings are derived from the reaction between an isocyanate component and a blend of amine components forming urea linkages.

Typical features:

- 2K system, 100% solids
- Unlimited dry film thickness (DFT) build in one coat
- Fast reactivity (~ seconds)
- Broad temperature and humidity application window
- Excellent physical properties
- High temperature stability

Polyurethane

Polyurethane coatings are derived from the reaction between an isocyanate component and a blend of alcohol components, with a catalyst forming urethane linkages.

Typical features:

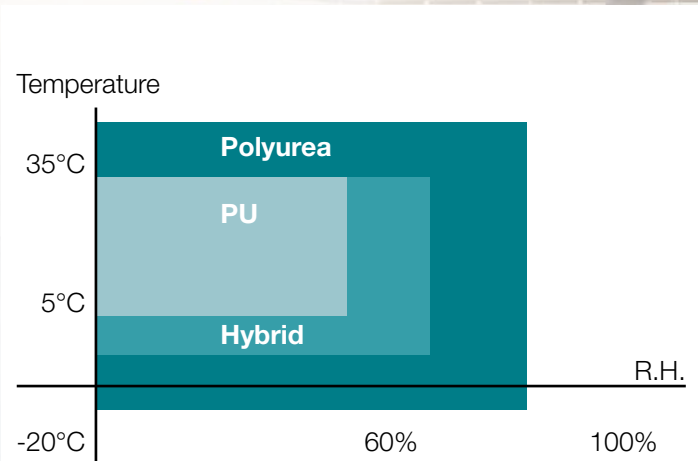
- 2K system, 100% solids
- Relative slow cure (~ minutes)
- Broad formulation range
- Lower stability at high temperature
- Wide range of physical properties
- Sensitive to humidity

Hybrid

Hybrid coatings leverage components from polyurea and polyurethane coatings formulations to combine their benefits.

Typical features:

- 2K system, 100% solids
- Unlimited dry film thickness (DFT) build in one coat
- Fast reactivity (~ seconds)
- Limited temperature and humidity application window
- Wide range of physical properties



Polyurea

Wider application window, fast reactivity, cold cure

PU

Price / quality

Hybrid

Best of both worlds. Good balance of performance, moisture insensitivity and price.

Towards sustainability

The coatings industry is transforming towards sustainability by adopting circular solutions. At Huntsman, we are committed to supporting our customer's sustainability goals with technologies that incorporate bio-based or recycled feedstocks, reducing their carbon footprint.

Our systems cure fast at ambient or low temperature, helping to reduce energy consumption and increase throughput during the application process. Formulated without added solvent minimizes VOC and impact on air quality, human health and the environment. They exhibit long performance durability, which helps to extend product lifetimes.



Huntsman's European polyurethanes manufacturing facilities have achieved the International Sustainability & Carbon Certification (ISCC PLUS) for mass balance. Our ability to track and certify the use of bio, bio-circular, or recycled based feedstocks in our MDI production supports our customers in their sustainable sourcing strategy.

We adhere to the United Nations Global Compact and its Ten Principles and use the UN Framework of 17 Sustainable Development Goals to transform our world by 2030.



No solvent added



Long lasting buildings & infrastructure



Fast cure
Durability of performance
Extending substrate lifetime
Alternative to fossil-based feedstocks

Portfolio

	Product name	Technology	Substrate	Function	Benefits
Coatings systems	POLYRESYST® F0570	Polyurea	Concrete, metal, composite, wood	Waterproofing	Flexibility, ability to withstand dimensional changes
	POLYRESYST® S3040	Polyurea	Concrete, metal, composite, wood	Waterproofing	Impact resistance, easy spray, CE marking
	POLYRESYST® S5010	Hybrid	Concrete, metal, composite, wood	Waterproofing	Mechanical resistance
	POLYRESYST® S6020	Polyurea	Concrete, metal, composite, wood	Waterproofing	Mechanical resistance
	POLYRESYST® H9060	Polyurea	Concrete, metal, composite, wood	Waterproofing Functional coating	Chemical resistance
	POLYRESYST® IC6005	PU	Concrete, metal, composite, wood	Intumescent coating	Passive fire protection, fast application
	POLYRESYST® S3005C	Hybrid	Concrete, metal, composite, wood	Waterproofing	Impact resistance, bio-based content
Primers	POLYRESYST® PR1010	1K PU	Porous substrates, concrete, wood	Substrate preparation	Improved adhesion, prevention of pinholes
	POLYRESYST® PR1020	1K PU	Porous substrates, concrete, wood	Substrate preparation	Improved adhesion, prevention of pinholes
	POLYRESYST® PR2010	1K PU	Flexible substrates	Substrate preparation	Improved adhesion, prevention of pinholes
	POLYRESYST® PR3010	2K PU	All substrates	Substrate preparation	Improved adhesion, prevention of foaming and pinholes
Prepolymers	SUPRASEC® 2008	Aromatic diisocyanate	Concrete, metal, composite, wood	MDI building block for spray applied coatings system	Ability to withstand dimensional changes
	SUPRASEC® 2054	Aromatic diisocyanate	Concrete, metal, composite, wood	MDI building block for spray applied coatings system	Mechanical resistance
	SUPRASEC® 2067	Aromatic diisocyanate	Concrete, metal, composite, wood	MDI building block for spray applied coatings system	Chemical resistance, mechanical resistance
Building blocks	SUPRASEC® 2496	PU	Concrete	MDI building block for 2-3K self levelling flooring system	Mechanical resistance
	SUPRASEC® 2447	PU	Concrete	MDI building block for 2K self levelling flooring system	Surface finish
	SUPRASEC® 2651	PU	Concrete	MDI building block for 2-3K self levelling flooring	Surface finish, fast application
	SUPRASEC® 2656	PU	Concrete	MDI building block for 2-3K self levelling flooring	Surface finish, fast application
	SUPRASEC® 2029	PU	Concrete	MDI building block for 2K self levelling flooring	Chemical resistance, fast application

Together, we've got you covered

We understand the value of sharing our expertise. That's why we can offer the highest level of support with advice on formulation or coating selection, process equipment, support for trials and prototypes production, and on prevention of occupational health issues.

- For example, we regularly work in partnership with:
- Formulators to create their own formulations
 - Manufacturers and specifiers to select the right system for their application

Our lab and analytical teams can run system tests, and our application lab can present demonstrations and manufacture prototypes.

Our experts are certified spray application trainers and can also provide support for applicators. We have close relationships with equipment manufacturers and can help with equipment selection, as well as conducting on-site application tests with our spray machines.

Huntsman Polyurethanes
Everslaan 45
B-3078 Everberg Belgium
Telephone: +32 2 758 9211

For more information on Huntsman product portfolio for coatings solutions, visit our website at www.huntsman.com

Huntsman Polyurethanes is an international business unit of Huntsman International LLC. Huntsman Polyurethanes trades through Huntsman affiliated companies in different countries such as Huntsman International LLC in the USA and Huntsman Holland BV in Western Europe. Except where explicitly agreed otherwise, the sale of products referred to in this publication is subject to the general terms and conditions of sales of Huntsman Holland BV or of its affiliated companies.

Huntsman Polyurethanes warrants only that its products meet the specifications agreed with the buyer. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications.

While all the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NO GUARANTY, WARRANTY OR REPRESENTATION IS MADE, INTENDED OR IMPLIED AS TO THE CORRECTNESS OR SUFFICIENCY OF ANY INFORMATION OR RECOMMENDATION OR AS TO THE MERCHANTABILITY, SUITABILITY OR FITNESS OF ANY PRODUCTS FOR ANY PARTICULAR USE OR PURPOSE. IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE. NOTHING IN THIS PUBLICATION IS TO BE CONSTRUED AS RECOMMENDING THE INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT AND NO LIABILITY ARISING FROM ANY SUCH INFRINGEMENT IS ASSUMED. NOTHING IN THIS PUBLICATION IS TO BE VIEWED AS A LICENCE UNDER ANY INTELLECTUAL PROPERTY RIGHT.

Products may be toxic and require special precautions in handling. The user should obtain Safety Data Sheets from Huntsman Polyurethanes containing detailed information on toxicity, together with proper shipping, handling and storage procedures, and should comply with all applicable safety and environmental standards.

Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent on the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

POLYRESYST® and SUPRASEC® are registered trademarks of Huntsman Corporation or an affiliate thereof in one or more, but not all, countries.

© Copyright 2023. Huntsman Corporation or an affiliate thereof. All rights reserved.

Contact us

