

HYPERLAST™ & DIPRANE™ SPRAYABLE ELASTOMERS

High Performance Sprayable Coatings



HYPERLAST™ & DIPRANE™ SPRAYABLE ELASTOMERS



INTRODUCTION

Dow Formulated Systems, a global business unit of The Dow Chemical Company (Dow), is an industry leader in the development and formulation of fully-formulated polyurethane and epoxy systems, focused on providing its customers worldwide with innovative, tailor-made solutions through a global network of systems houses.

Dow Formulated Systems offers application development and processing support to help customers grow their business, with a range of innovative solutions for some of the most demanding industrial engineering applications.

With more than 40 years experience in the development of polyurethane elastomers our products are used internationally for wear and tear protection in automotive, mining, mineral extraction, material handling, offshore and industrial engineering applications.

Acting as interpreter between chemist and engineer, we adapt and use the versatility of chemistry to provide practical solutions to industrial applications. By working with Dow Formulated Systems, you'll have access to reliable service, creative polymer design, and the vast resources of one of the world's largest and most respected chemical companies.

High Performance Sprayable Coatings

The HYPERLAST™ and DIPRANE™ range of sprayable polyurethane systems offer the end client a range of rapid cure and fast drying coatings designed for various industrial and automotive protective applications. They have been developed to help protect and extend the design life of a variety of substrates. These products are formulated without the use of solvents.



HYPERLAST™ sprayable polyurethane systems are predominantly based on polyether chemistry. They yield elastomers with remarkable dynamic performance and toughness through to polyether polyols which offer very good all round performance - especially in cold and wet environments.

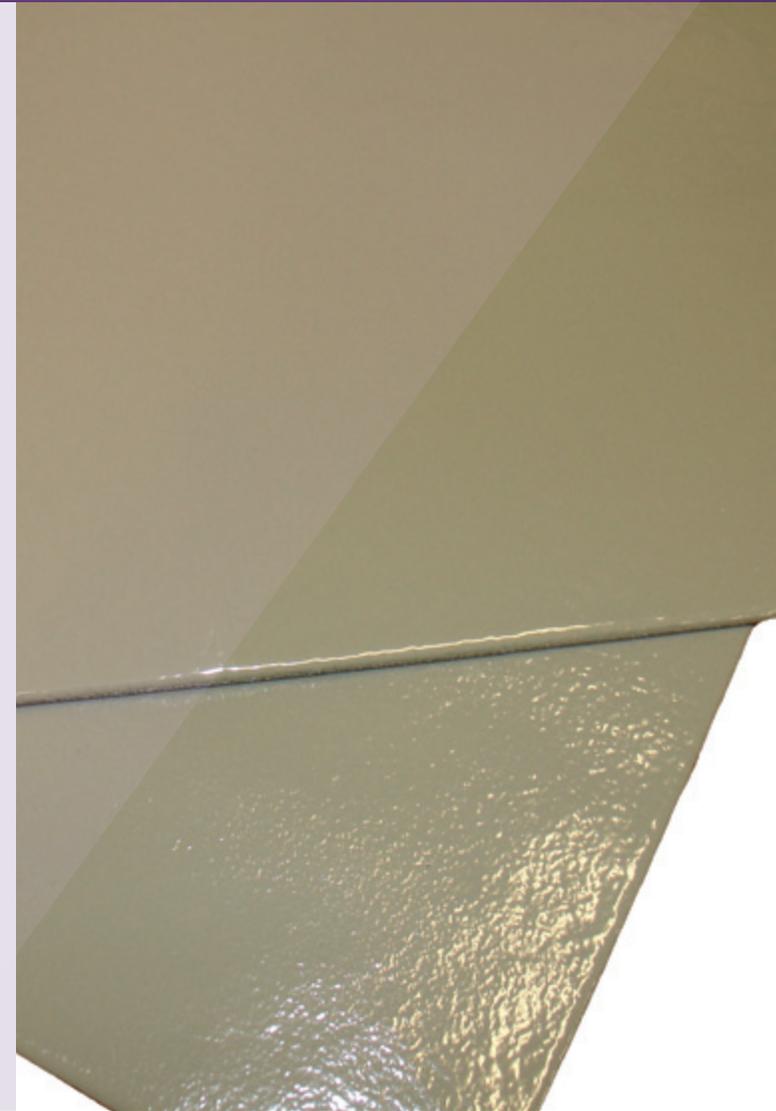
DIPRANE™ sprayable polyurethane systems are based on polyester or polycaprolactone chemistry to yield elastomers that are suitable in applications requiring a high degree of wear and tear resistance. Typical examples include ore and mineral extraction processes.



They can also be tailored to provide elastomers for example with improved chemical resistance or fire retardant properties.

The HYPERLAST™ and DIPRANE™ range of tough, durable coatings offer:

- Fast installation
- Non-slumping
- Fast return to service
- Non-solvent high build
- Corrosion protection
- Chemical resistance
- Reduced noise transmission



Properties Guide

BRAND	HYPERLAST™						DIPRANE™		
	EME	TMP	TMP	EMH	TMH	EHU	SMP	SMP	SMP FR
Product Family									
Hardness Shore A (D)	70 - 90A	85	82	85, 95 & 80D	85	60D	83	85E	88
Onsite process	X	X	X	•••	X	••	X	X	X
Ratio 1;1 by Vol	X	X	✓	✓	✓	✓	X	✓	X
High Pressure apply	X	••	••	••	••	••	X	•••	X
Low Pressure apply	••	••	•	••	••	••	••	X	••
Hydrolysis Resistance	•••	•••	•••	•••	•••	•••	•	•	•
Fire Retardant	X	X	X	X	X	X			•••
Low Temperature Flex	••	••	••	•••	••		•	•	•
Abrasion Resistant	•	•••	•••	•	••	•	•••	•••	••
Tear Resistant	•	••	••	•	••	•	••	••	••
UV Stable						•••			

✓ Yes
X No/ Unsuitable

• Good
•• Very Good
••• Excellent

High Performance Sprayable Coatings

From flexible elastomers to high hardness chemically resistant coatings, the HYPERLAST™ and DIPRANE™ range of Sprayable polyurethane coatings comprise of polymers that span from 70 shore A hardness to 80 shore D providing products to suit a variety of applications.

Utilising spray technology that is free from solvents, these systems allow the formation of seamless coatings, which can be applied evenly to both horizontal and vertical surfaces, capable of covering details and protrusions.

The extensive experience of Dow has led to the optimization of the HYPERLAST™ and DIPRANE™ range of Sprayable polyurethane coatings in terms of process and performance. An impressive track record has been achieved with these products in the following areas:

- Pipe coating
- Fenders / buoys
- Truck bed linings
- Wear protection of metal components
- Theming



DOW FORMULATED SYSTEMS LOCATIONS



Global reach, local support

High Performance Sprayable Coatings

Reliable support and experience to help meet your needs

At Dow Formulated Systems it's all about you – the customer. We aim to be your material technology provider of choice, offering application development and processing support to help customers grow their business, streamline operations and increase efficiency. Through our vast portfolio of polyurethane and epoxy technology, we can create innovative solutions for some of the most demanding industrial engineering applications. We offer over 40 years of experience, reliable service, and creative polymer design, as well as the vast resources of one of the world's most respected chemical companies.

Providing you with global reach, local support

As one of our customers, you can benefit from our global experience and local technical support provided through a network of systems houses around the world. Our customers don't work with us just for the high-performance products we offer – they work with us because of the excellent service and support we deliver to them at a local level, from the early stages of conducting trials and sampling through full-scale production and commercialization, we work hand in hand with our customers in their locations to help ensure optimum performance. Having localized systems houses allows us to leverage our global knowledge quickly and smoothly – providing you with fast response times and technical support.

Supply and quality you may count on

At Dow Formulated Systems, we offer a reliable supply of products and strive to deliver on time and in full to help meet your deadlines to keep your projects on track. Our global supply and logistics capabilities are used to address your needs, regardless of location.

About Dow Formulated Systems

Dow Formulated Systems, a global business unit of The Dow Chemical Company (Dow) is a global industry leader in the development and formulation of fully-formulated polyurethane and epoxy systems, focused on providing its customers world-wide with innovative tailor-made solutions through its Energy Efficiency, Alternative Energy & Composites, Industrial Castings and Adhesives, Infrastructure Life Preservation and Leisure & Lifestyle businesses.

Dow Formulated Systems manufactures and markets custom formulated rigid and semi-rigid, flexible, integral skin, and microcellular polyurethane foams and fully-formulated systems as well as coatings, adhesives, sealants, elastomers and binders used in applications ranging from residential and commercial construction, infrastructure repair, wind energy solutions, oil and gas, automotive, appliance, furniture, and shoe soles to decorative molding and athletic equipment. Striving to address the specific needs of its customers in their local geographic regions, Dow Formulated Systems operates a global network of Systems Houses.



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