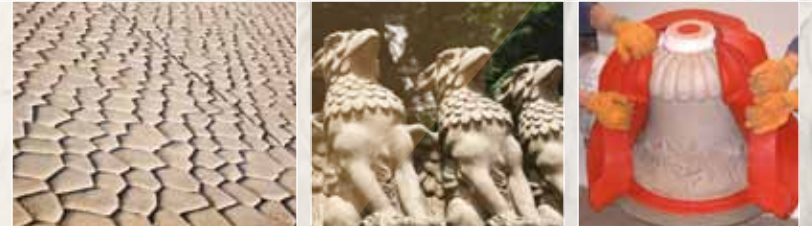


DURAMOULD™ Systems for Mould Making, Rapid Prototyping, Pattern Making and Tooling



Formulated Systems

The power of flexible design

Introduction

Dow Formulated Systems, a business unit of The Dow Chemical Company, 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 provides application development and processing support to grow your business, with a range of innovative solutions for the most demanding industrial engineering applications. With more than 40 years experience in the development of polyurethane elastomers our products are used internationally in engineering components to provide wear and tear protection in automotive, mining, material handling, offshore and industrial engineering applications.

Acting as interpreter between chemist and engineer, we at Dow Formulated Systems adapt and use the versatility of chemistry to provide practical solutions to industrial applications. By choosing 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.

Dow has supplied polyurethane products into the pre-cast concrete industry for more than 40 years and, building on this vast experience, has developed the DURAMOULD™ range of systems for mould making and form liners.



DURAMOULD™ Polyurethane Systems for Mould Making (e.g. liners for pre-cast concrete)

Hand mixable and machine mixable DURAMOULD systems from Dow offer a number of benefits including easier formulation, simplified materials handling and casting, and a quicker and more efficient manufacturing process, all with the assurance of long-lasting moulds that give excellent reproduction of fine detail.



DURAMOULD™ ET and ETM - Hand Mixable Grades

- Easy ratio
- Room temperature castable
- Moisture tolerant
- Finger print reproduction
- Minimal shrinkage

DURAMOULD™ EMX and SMV - Machine Mixable Grades

- Quick gel and demould
- High production rates
- Excellent abrasion resistance
- Excellent resistance to release oils
- Finger print reproduction



DURAMOULD™ ET and ETM – Hand Mixable Grades

With simple ratios and long gel times DURAMOULD™ ET grades allow easy processing by hand mix method to give high quality moulds with finger print detail of the master pattern.

GRADE	DURAMOULD ET 30A	DURAMOULD ET 45A	DURAMOULD ET 60A
COLOUR	Yellow	Red	Natural
ISOCYANATE	DURAMOULD 5234 Isocyanate	DURAMOULD 5223 Prepolymer	DURAMOULD 5223 Prepolymer
MIXING RATIO (weight)	0.7:1	1:1	0.5:1
GEL TIME 100g @ 25°C/77°F	15-25 mins	15-25 mins	10-20 mins
SHORE HARDNESS	30A	45A	60A

GRADE	DURAMOULD ETM 30A	DURAMOULD ETM 50A	DURAMOULD ETM 60A	DURAMOULD ETM 75A
COLOUR	Natural	Natural	Natural	Natural
ISOCYANATE	DURAMOULD ETM 3050 Prepolymer	DURAMOULD ETM 3050 Prepolymer	DURAMOULD ETM 6075 Prepolymer	DURAMOULD ETM 6075 Prepolymer
MIXING RATIO (vol)	2:1	1:1	1:1	1:2
POT LIFE at 24°C/75°F	50 mins	50 mins	50 mins	20-25 mins
SHORE HARDNESS	28-33	48-53	58-63	75-80



DURAMOULD™ EMX and SMV – Machine Mixable Grades

The DURAMOULD™ EMX & SMV grades have been developed based on materials used in the industry for over 40 years. They allow rapid productivity via multi-component dispensing machines and the ability to mass produce quality moulds economically.

GRADE	DURAMOULD EMX 65A	DURAMOULD SMV 30A	DURAMOULD SMV 40A	DURAMOULD SMV 60A
COLOUR	Natural	Natural	Natural	Natural
POLYOL TYPE	Polyether	Polyester	Polyester	Polyester
ISOCYANATE	DURAMOULD 5149 Prepolymer	DURAMOULD SM Prepolymer	DURAMOULD SM Prepolymer	DURAMOULD SM Prepolymer
MIXING RATIO (weight)	0.83:1	4.15:1	3.59:1	1.77:1
GEL TIME 100g @ 25°C/77°F	6-8 mins	3.5 - 5.5 mins 100g @40°C/104°F	3-4 mins	3.5-4.5 mins
SHORE HARDNESS	65A	30A	40A	60A



**Reliable support and experience
to 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 grow your business, streamline operations and increase efficiency. Through our vast portfolio of polyurethane and epoxy technology, we create innovative solutions for 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 expertise 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 provide – they work with us because of the unmatched 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 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 in your own language.

Supply and quality you can count on

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



Worldwide System Houses





Formulated Systems

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