



Formulated Systems

PRODUCT INFORMATION

TECHNICAL DATASHEET

7/9/2010

HYPERLAST EMH 85A

Introduction

HYPERLAST™ EMH 85A is a two component sprayable elastomer. The material can be applied to a wide variety of substrates at ambient temperature and its rapid reaction time produces a sprayed film which is touch dry in seconds. The system is designed for use through 1:1 volumetric spray equipment.

Component Properties

Polyol Component

Product Reference	HYPERLAST EMH 85A
Appearance	Amber Liquid at 25 °C
Viscosity	350 - 650 cps at 25 °C
Specific Gravity	1.01 – 1.03 at 25 °C

Isocyanate Component

Product Reference	HYPERLAST EMH 85A PREPOLYMER
Appearance	Amber Liquid at 25 °C
Viscosity	1500 - 2500 cps at 25 °C
Specific Gravity	1.11 - 1.13 at 25 °C

Mixed System

Mixing Ratio	0.91 :1 by weight (Polyol : Isocyanate)
Gel Time	0' 5" - 0' 10" (100 gms at 25 °C)

Cured System – Typical Properties

Property	Test Method	Value	Unit
Shore Hardness	BS 2782 Meth 365B	85	°A
100% Modulus	BS 903 Pt A2	4.5	MPa
Tensile Strength	BS 903 Pt A2	11.5	MPa
Elongation at Break	BS 903 Pt A2	320	%
Angle Tear Strength	BS 903 Pt A3	38	N/mm
Density	BS 903 Pt A1	950	Kg/m ³
Nicked Crescent Tear Strength	ASTM D624	45	N/mm
Cold Flex Temperature	BS 2782 Meth 150B	-40	°C

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Processing Details

The following information is given as a guide to processing this product. It is recommended that optimum conditions for a specific application are determined experimentally. Our Technical Service Department can offer more detailed advice.

Recommended Processing Temperatures

Polyol Component	Refer to our Technical Service Department for temp °C
Isocyanate Component	Refer to our Technical Service Department for temp °C

Recommended Cure Cycle

24 - 48 hours at room temperature to reach full cure.

Storage and Handling

		Shelf life
Polyol Component	Store in tightly sealed containers at a temperature of 0 - 30 °C. Raise to the processing temperature and mix well before use. Avoid contact with moisture.	6 months
Isocyanate Component	Store in tightly sealed containers at a temperature of 0 - 30 °C. Avoid contact with moisture. Storage below the recommended minimum temperature may result in freezing of the Isocyanate. If the Isocyanate does not fully melt out when raised to the processing temperature it may be necessary to re-melt at a temperature of 60 - 70 °C following the procedures laid down in the information sheet 'ISOCYANATES - HAZARDS AND SAFE HANDLING PROCEDURES'.	12 months

More detailed information on the storage and handling of polyurethane components can be obtained by contacting our Technical Service Department.

Packaging

Polyol Component	25 Kgs, 200 Kgs
Isocyanate Component	25 Kgs, 220 Kgs

Safety Considerations Customer should refer to the Dow product Material Safety Data Sheet (MSDS) to understand the hazards of the product and safe handling guidance.

Customer Notice Dow encourages its customers to review their applications of Dow products from the standpoint of human health and environmental quality. For further information about safety considerations for your product/application, please contact your Dow Sales representative.

Contact Information:

For more information
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