

# Duramould ET 45A (Red)

## 1. DESCRIPTION

Duramould ET 45A (Red) is a polyol based curative which reacts with Duramould 5223 Isocyanate pre-polymer to produce a low hardness polyurethane elastomer with high extensibility. The product has good moisture tolerance and can be used to take masters from stone, plaster etc.

## 2. COMPONENT PROPERTIES

### Polyol Component:-

Product Reference: 7980295  
 Appearance: Red liquid at 25°C  
 Viscosity: 500-1000 cps at 25°C  
 Specific gravity: 1.01-1.04 at 25°C

### Isocyanate Component:-

Product Code: 7855223  
 Appearance: Colourless liquid at 25°C  
 Viscosity: 5000 - 9,000 cps at 25°C  
 Specific Gravity: 1.02 - 1.06 at 25°C

### Mixed System:-

Mixing Ratio: 1:1 by weight (Polyol : Isocyanate)  
 Gel Time: 15'0" - 25' 0" (100gms at 25°C)

## 3. CURED SYSTEM - TYPICAL PROPERTIES

Property	Test Method	Value	Unit
Shore Hardness	BS EN ISO 868	45	°A
100% Modulus	BS 903 Pt A2	1.2	MPa
Tensile Strength	BS 903 Pt A2	5.4	MPa
Elongation at Break	BS 903 Pt A2	1000	%
Angle Tear Strength	BS 903 Pt A3	24	N/mm
Split Tear Strength	ASTM D470	6	N/mm

## 4. PROCESSING DETAILS

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

### Recommended Processing Temperatures:-

Polyol Component: 20-30°C  
 Isocyanate Component: 20-30°C

Information contained in this document is the result of careful tests carried out objectively. It has been produced to aid the Buyer, but without implying any commitment on our part. The Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended purpose. Since we cannot control the application, process, or use of these products, we cannot accept responsibility therefore.

# Duramould ET 45A (Red)

**Recommended Cure Cycle:-**

Product will be fully cured within 24-48 hours.

---

## 5. STORAGE AND HANDLING

---

**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.

Shelf Life - 12 months.

**Isocyanate Component:-**

Store in tightly sealed containers at a temperature of 0-30°C. Avoid contact with moisture.

Shelf Life - 6 months.

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 Hyperlast Limited information sheet 'Isocyanates - Hazards and Safe Handling Procedures'.

More detailed information on the storage and handling of Polyurethan Components can be obtained by contacting Hyperlast Limited Technical Service Department.

---

## 6. MATERIAL SAFETY INFORMATION

---

Before using this product consult Hyperlast Limited Safety Data Sheets.

---

## 7. PACKAGING

---

7980295 is available in : 25kgs, 200kgs

7855223 is available in : 25kgs, 200kgs

Information contained in this document is the result of careful tests carried out objectively. It has been produced to aid the Buyer, but without implying any commitment on our part. The Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended purpose. Since we cannot control the application, process, or use of these products, we cannot accept responsibility therefore.