# PRODUCT INFORMATION

**TECHNICAL DATASHEET**

2/23/2011

# HYPERLAST PRIMER 4016

## Introduction

HYPERLAST™ Primer 4016 Polyol is a solventless based component which reacts with HYPERLAST Primer 5039 Isocyanate to produce a system suitable for use as a primer for a range of substrates including metals, concrete, ceramics, plastics, etc, prior to casting over with polyurethane elastomer. HYPERLAST Primer 4016 is suitable for brush or spray application.

## Component Properties

### Polyol Component

| | |
|---|---|
| Product Reference | HYPERLAST Primer 4016 Polyol |
| Appearance | Blue Liquid at 25 °C |
| Viscosity | > 10,000 cps at 25 °C |
| Specific Gravity | 1.56 – 1.60 at 25 °C |

### Isocyanate Component

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|---|---|
| Product Reference | HYPERLAST Primer 5039 Isocyanate |
| Appearance | Brown Liquid at 25 °C |
| Viscosity | 60 – 120 cps at 25 °C |
| Specific Gravity | 1.20 – 1.23 at 25 °C |

### Mixed System

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| Mixing Ratio | 2 : 1 by weight (Polyol : Isocyanate) |
| Gel Time | 60' 0" – 120' 0" (100 gms at 25 °C) |

## 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

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| Polyol Component | 20 – 30 °C |
| Isocyanate Component | 20 – 30 °C |

## Recommended Cure Cycle

For optimum results it is recommended that the primer should be allowed to cure to a tacky or touch dry state prior to application of polyurethane. This takes typically 1 - 2 hours at room temperature, - this time will substantially reduce if the temperature of the substrate is increased, for example 15 mins approx at 60°C, and less than 5 minutes at 80°C.

## Additional Processing Details

The mixed primer has a pot life of approximately 30 mins. A dry film weight of approximately 50 - 90 g/m$^2$ (35 - 65 microns) is recommended for optimum results. Metals should be shot blasted and degreased prior to primer application.

## 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. | 12 months |
| Isocyanate Component | Store in tightly sealed containers at a temperature of 20 - 35 °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'. | 6 months |

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

## Packaging

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|---|---|
| Polyol Component | 7 Kgs, 25 Kgs |
| Isocyanate Component | 3.5 Kgs, 25 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:**
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