

# ENDURATHANE CSX60D

(Formerly Endurathane UHC)

## DESCRIPTION

**Endurathane CSX60D** (formally labelled *Endurathane UHC*) is a room temperature curing 100% solids, solventless aromatic polyurethane casting resin. The cured product provides a tough and resilient, durable hard elastomer. Suitable for making models, props and prototypes.

Medium cure and medium demould times are a feature of **Endurathane CSX60D** which enable high productivity and good mould turnaround. The demould time and full cure can be reduced with post-curing. **Endurathane CSX60D** features cold processability and cure. **Endurathane CSX60D** also possess excellent machineability.

## FEATURES

- 24hour cure – no expensive mixing equipment required.
- Durable.
- Impact resistant.
- Protection against chemical attack (some oils, solvents, etc.).
- Excellent waterproofing characteristics.
- Creates a tough, glossy surface that resists moisture and various chemicals.
- Sandable and machineable.

## Reactivity Grades available:

- CSX60D - 5: Short working time with fastest demould.
- CSX60D - 15: Medium working time with good demould.

## TECHNICAL SPECIFICATIONS

**Table 1: Typical Properties (Wet)**

| Test                                      | Results                                     |
|---|---|
| Solids Content                            | 100%  |
| Mixed SG                                  | 1.10 g/mL                                   |
| Mix Ratio by weight                       | 38.5A to 100B<br>Or<br>100A to 260B         |
| Pot Life<br>CSX60D - 5<br>CSX60D - 15     | 4-5 minutes@ 20°C<br>12-15 minutes@ 20°C    |
| Demould time<br>CSX60D - 5<br>CSX60D - 15 | 25-30 minutes@ 20°C<br>90-120 minutes@ 20°C |
| Hard Cure<br>CSX60D - 5<br>CSX60D - 15    | 12- 24 hours@ 20°C<br>24 hours @ 20°C       |
| Full Cure<br>CSX60D - 5<br>CSX60D - 15    | 5-7 days@ 20°C<br>7 days@ 20°C              |

Size of the mix will influence the pot life and demould time.

**Table 2: Typical Performance Properties of Cured Membrane**

| Physical Properties |                         |
|---------------------|-------------------------|
| Tensile Strength    | 13-14 N/mm <sup>2</sup> |
| Elongation          | 60-65%                  |
| Hardness            | 60-65 Shore D           |

Storage Stability: Minimum 12 months in unopened containers

## PACK SIZES

Available as pre-packaged 18kg kits comprising:

Hardener @ 5 kgs per 4L  
Resin @ 13 kgs per 20L  
Kit size: 16.3L.

**Colour:** Clear beige (not pigmented).

Pigment colourant addition rate: 0.25-0.5L  
Pigment Paste DINP per 18kg kit.

Pigment available in the following colours:  
White, Black, Dark Grey (RAL 7015), Medium Grey (7042), Concrete Grey (7035), Beige (1001), Red, Yellow, Green & Blue.

## SAFETY INFORMATION

1. Do not apply this product without adequate air exchange and ventilation in enclosed areas.
2. Wear protective clothing during use. Breathing fumes and contact with skin may cause allergic reaction.
3. Consult the Material Safety Data Sheet on this product for detailed health, hygiene and safety information.

## TRANSPORTATION INFORMATION

### Hardener:

|                        |                |
|------------------------|----------------|
| Proper Shipping Name:  | Not applicable |
| Dangerous Goods Class: | Not applicable |
| U.N. No:               | Not applicable |
| Haz Chem Code:         | Not applicable |
| Packaging Group:       | Not applicable |

### REGULATORY INFORMATION

|                       |                  |
|-----------------------|------------------|
| HSNO Approval number: | HSR002670        |
| HSNO Classification:  | 6.5A, 6.5B, 6.9A |

### Resin:

|                        |                |
|------------------------|----------------|
| Proper Shipping Name:  | Not applicable |
| Dangerous Goods Class: | Not applicable |
| U.N. No:               | Not applicable |
| Haz Chem Code:         | Not applicable |
| Packaging Group:       | Not applicable |

### REGULATORY INFORMATION

|                       |           |
|-----------------------|-----------|
| HSNO Approval number: | HSR002670 |
| HSNO Classification:  | 6.5B      |

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