

## Durathane CM 50A

### **Description**

This system materials is Bi-component. A is polyol component, and B is MDI-terminated pre-polymers.

### **Application**

This system material is used to produce various PU mould, such as shoe mould, concrete mold tec. It can substitute silicone rubber to produce "artificial culture stone"

### **Characteristic**

It has excellent processing properties, cured under room temperature, short demould time, and the color can be change by adding pigment. The final products are transparent which enjoy good abrasion resistance, water resistance, good resilience. The hardness is in the 40 to 90 shore A hardness range.

# Characteristics of components & Physical Properties

<b>A</b>	Type	Durathane CM 50A Part A
	Appearance	Light yellow transparent liquid
	Viscosity (mPa s/25°C)	1300 ± 200
<b>B</b>	Type	<b>Duracure CM 50A Part B</b>
	Appearance	Colorless or light yellow transparent liquid
	Viscosity (mPa s/25°C)	1050 ± 150
Ratio A : B (mass ratio)		100 : 100
Operating Temperature (°C)		25 ~ 40
Gel Time (min/30°C)		15 ~ 16
Appearance of final products		Light yellow elastomer
Hardness (Shore A)		50 ± 3
Tensile strength (Mpa)		7
Elongation at break (%)		500 ~ 700
Tear Strength (kN/m)		25
Rebound (%)		53
Specific gravity (25°C) (g/cm <sup>3</sup> )		1.05

## Mixing and curing

A Component	-----	100
B Component	-----	as the recommended ratio
Mix temperature (A/B)/°C	-----	25 ~ 40
Mould temperature °C	-----	25 ~ 40
Gel time (min)	-----	as the above data
Postcure, hours/°C	-----	16 at 100

## Storage

Store in a cool and dry place, if you can't use it up at one time, Pls fill nitrogen gas and then seal it.

## Shelf life

The storage time of original packing is 6 months at the above condition from the data of production.

## Packing

20 kgs or 200 kgs per steel drum