

## Dalchem – Crystal Clear Epoxy System

### PRODUCT DESCRIPTION

Dalchem Crystal Clear is a solvent free, liquid epoxy resin system specifically designed for laminating and flood coating substrates to provide a tough, durable water clear surface finish.

Formulated to be a low viscosity with an easy mix ratio of equal parts resin to hardener by volume (Resin 100:100 Hardener by volume). Crystal Clear resin system enables easy incorporation of fillers and PSTF dyes and media for decorative purposes. Dalchem Crystal Clear cures at room temperature, and has UV stabilizers for superior resistance to yellowing.

Crystal Clear is used in commercial applications as a protective finish for table tops, decorative reclaimed timber, bar counters etc, and for creative application such as resin art, decoupage and inlay work.

### PHYSICAL PROPERTIES UNCURED

	<b>RESIN</b>	<b>HARDENER</b>
Colour:	Clear liquid	Clear liquid
Viscosity <i>mPas@25°C</i>	1500 – 2000	800 - 900
Specific Gravity, <i>g/ml @25°C</i>	1.14	0.98
Mix Ratio parts by volume	100 parts	100 parts
Pot Life <i>500g@25°C</i>	30 mins (Warming may reduce this)	
Demould Time <i>@25°C</i>	8 Hours (Nominal cast depth of 15mm)	
Mixed Viscosity <i>mPas@25°C</i>	1000-1500	
Shore D Hardness	80	
HDT	4 Hours@60°C =75°-80°C.	28 days@25°C =50°C,

### PHYSICAL PROPERTIES CURED

Compressive strength	80-100 MPa
Flexural strength	80-110 MPa
Modulus of Elasticity	3000 – 4000 Mpa
Linear shrinkage	0.1 – 0.3%
Coefficient of thermal expansion	90-95 (10 <sup>-6</sup> mm/mm°C)

THE INFORMATION AND DATA CONTAINED HEREIN ARE BASED ON INFORMATION WE BELIEVE RELIABLE. EACH USER OF THE MATERIAL SHOULD THOROUGHLY TEST ANY APPLICATION AND INDEPENDENTLY CONCLUDE SATISFACTORY PERFORMANCE BEFORE COMMERCIALISING. SUGGESTIONS OF USES SHOULD NOT BE TAKEN AS INDUCEMENTS TO INFRINGE ON ANY PARTICULAR PATENT.

