

Dalchem – 421 Epoxy System

PRODUCT DESCRIPTION

Dalchem 421 is a multipurpose solvent-free, liquid epoxy resin system specifically designed as an industrial-grade laminating and tooling epoxy that cures at room temperature.

Formulated to be low viscosity, the resin also enables easy incorporation of fillers for casting purposes or the use of fibreglass for laminating applications. Dalchem 421 is excellent as a general-purpose adhesive and is used extensively in woodworking and boatbuilding applications.

The resin and hardener will cure to form a hard, high-impact-resistant casting or adhesive bond that exhibits excellent mechanical properties. Multipurpose applications include general resin laminating, bonding of parts and casting of foundry patterns, plugs and checking tools.

PHYSICAL PROPERTIES UNCURED

	RESIN	HARDENER
Colour:	Clear liquid	Green liquid
Viscosity <i>mPas@25°C</i>	900 - 1100	220 - 230
Specific Gravity, <i>g/ml @25°C</i>	1.12	0.95
Mix Ratio parts by weight (5:1)	100 parts	25 parts
Pot Life <i>500g@25°C</i>	50 -60 mins	
Thin Laminate Gel Time <i>25°C</i>	4.5 Hours	
Demould Time <i>@25°C</i>	12 Hours (nominal cast depth of 15mm)	
Mixed Viscosity <i>mPas@25°C</i>	850	
Shore D Hardness	84	
HDT 24 hours @ <i>25°C</i>	50°C	

PHYSICAL PROPERTIES CURED

Compressive strength	55 MPa
Flexural strength	81 MPa
Modulus of Elasticity	3.1 Mpa
Linear shrinkage	0.1 – 0.3%
Tensile Elongation	9%

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

