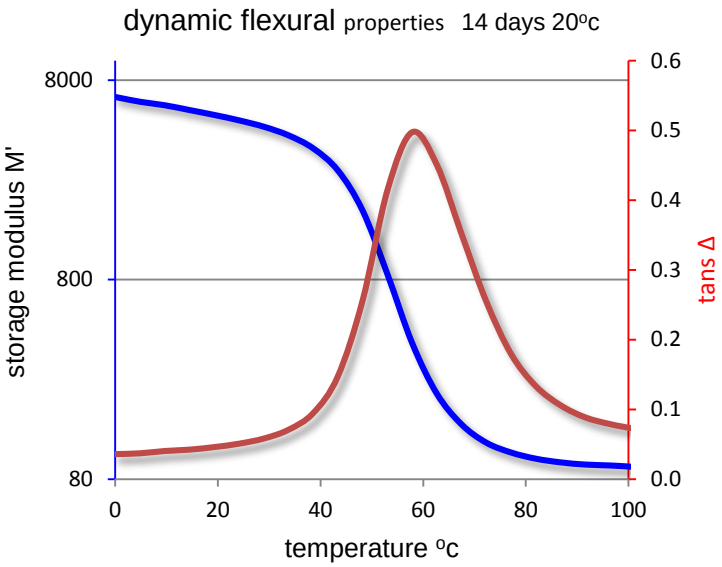
Con-Treat Structural Adhesives

SurePaste

- **SurePaste Adhesive** is a high strength, thixotropic, gap filling paste adhesive. For **structural bonding** of concrete, masonry stone, granite bench tops and ceramics. Choices of different fixture setting times with Part A, combining with a common Part B hardener, covers all bonding requirements and eliminates unwanted wasted adhesive.

Grade	SurePaste 120	SurePaste 05
Mixing ratio (volume)	1 : 1	1 : 1
Work time 25°c 100ml	120 mins	5 mins
Fixing Time 1mm	240 mins	10 mins
Clamping Time	24 hrs	8 hours
Cure Time 25°c	3 day	2 day



Dynamic Mechanical Properties

Flexural properties	20°c	70°c
E' storage modulus	3475 MPa	4100 MPa
E" loss modulus max	35°c	50°c
Tan α	53 °c	70 °c
Tans delta δ	48°c	61°c

Static mechanical properties

SurePaste 121 Paste	16hrs 40oc	16hrs 70oc
Flexural Strength	20	33
Modulus MPa	3600	4100
Tensile Strength	8	10
Compressive Strength	50	65
Tg °c	42	50

bonding strengths

SurePaste 121	16hrs 40°c
Lap shear GRP – GRP MPa	14
Steel - Steel	19
Aluminium	13
Ply 6mm	4
T-peel Zn Gal N/mm	3.5

Structural Adhesives

Preparation data

Surfaces to be bonded free of any contaminates such as dust or oil.
Timber , epoxy or painted surfaces should be sanded thoroughly to provide a good mechanical key. Polyester, vinyl ester laminates should be waxed resins, fully cured then sanded to remove any residual waxes or surface inhibitions.
Concrete should be at least 28 days old and free of additives, curing agents and oils. Prepare concrete by acid etching/neutralising/washing, professional grinding or captive blast cleaning as applicable to expose firmly held aggregate.
Prepare steel surfaces in according to AS 1627-2002 or appropriate international standard. If in any doubt consult qualified engineer.
Apply adhesive to both surfaces. Clamping should be firm to hold components in place during cure. Excessive clamping is to be avoided as this can lead to minimal glue line thickness.

Referenced test methods

Viscosity	ISO 2555
Epoxy Equivalent weight	ISO 3001
Determination of amine nitrogen content	ISO 9702
Reactivity dynamic	ISO 11357-5
Tg	ISO 111357-3
Tg Enthalpy	ISO 111357-5
Flexural Properties	ISO 178
Tensile Properties	ISO 527
Heat Deflection Temperature	ISO 75
Compressive Properties	ASTM D695
Dynamic Mechanical Properties	ASTM D5418
DMA flexural vibration	ISO 6721
DMA shear	ISO 6721
Tensile Lap Shear CRS	ASTM D1002
Tensile Lap Shear FRP	ASTM D 5868
T-Peel	ISO 11339