



Crystalbond 509-1/509-3/590

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Description

Crystalbond products are washable temporary adhesives, ideal for attaching materials that are required for cutting, grinding and other mechanical processes.

The high adhesive strength enables the bonding of glass, metals and ceramics.

After each step, the adhesives can be easily removed with low heat or with the use of a suitable solvent.

Crystalbond adhesives are used in the following processes:

- processing of movable ceramics
- the disassembly and cutting of substrates
- cutting of metallurgical patterns
- dismantling piezoelectric transducers
- composition of cross sections
- cutting of ferrites and LCD glass
- cutting of metallic and optical single crystals
- filling components for temporary and mechanical support

Characteristics	Crystalbond 509-1/509-3	Crystalbond 590
Special Features	Excellent bond effect with metals, glass and ceramics. Transparent in cross sections. Minimizes clogging of diamond tools.	Excellent bonding effect for cutting small parts. Slightly flexible. Soluble with Stripper 590-S
Shape	Bar	Bar/Powder
Weight	approx. 100g	approx. 200g
Melting Point	74 °C	150 °C
Colour	Amber/Clear (509-1/509-3)	Brown
Viscosity	6000 cps	9000 cps
Solvent	Aceton - MEK - Stripper 509-S	Stripper 590-S - Isopropanol

Handling

Heat a plate. Do not go beyond the flow temperature, otherwise the glue will degrade and the strength will decrease.

Apply an even layer of adhesive to the mounting plate.

Place the part to be bonded over the adhesive.

Use a weight to apply pressure, to remove and prevent air bubbles, make sure that the substrate is parallel to the plate.

To increase the adhesive strength, apply additional adhesive around the edge.

Remove the mounting plate from the heat source, let it cool slowly at room temperature until the adhesive has hardened.

Ensure a minimum cooling time of 20-30 minutes before machine processing.