

## Technical Information

### Mitrelock® Thick (Black)

**Mitrelock Thick Black**, is a thick, black, toughened cyanoacrylate adhesive used for strengthening and bonding knots in wood-turning, highlighting the knot as a feature rather than a fault in the timber. Used for adding a black inlay onto decorative items, crack filling in artisan wood counters and tabletops, for bowl and spindle wood-turning and creative inlays in wood turning, Luther and artistic woodworking applications.

### Physical Properties

Liquid State		Cured State	
Base	Ethyl Cyanoacrylate	Colour	Black
Colour	Black	Specific Gravity (20°C)	1.1-1.3
Specific Gravity (20°C)	1.05	Service Temperature	-55 °C to 125°C
Refraction Index (n 20D)	1.439	Refractive Index (n 20D)	1.49
Flash Point (°C)	>80°C	Dielectric Constant (at 10MHz)	3.5
Shelf Life	12 months	Soluble in Acetone, Nitromethane.	
Boiling Point	65°C at 16mmHg		
Viscosity (cP)	4000-7000		



### Typical Bond Strength

5 to 21 N/mm2

### Hot Strength

**Mitrelock® Thick Black** instant adhesive is suitable for use at temperatures up to 105°C. At 105°C the bond will be approximately 70% of the strength at 21°C.

### Chemical/Solvent Resistance

Exhibit excellent chemical resistance to most oils and solvents including motor oil, leaded petrol, ethanol and isopropanol. Cyanoacrylates are generally not resistant to high levels of moisture or humidity over extended periods of time.

### General Information

For information on safe handling of this product consult the Safety Data Sheet (SDS).

### Storage

Store in a cool area and out of direct sunlight. Refrigeration to 5°C gives optimum storage stability.

### Disclaimer

The data contained herein are furnished for informational purposes only and are believed to be reliable. However, Cyanotec Ltd does not assume responsibility for any results obtained by persons over whose methods Cyanotec Ltd has no control. It is the user's responsibility to determine the suitability of Cyanotec Ltd products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Cyanotec Ltd products. Cyanotec Ltd specifically disclaims all warranties express or implied, including warranties of saleability and suitability for a particular purpose arising from sale or use of Cyanotec Ltd products. Cyanotec Ltd further disclaims any liability for consequential or incremental damages of any kind including lost profits.

### Typical Fixture Time Performance

5 to 60 Seconds

(Full cure and maximum strength achieved after 24 hours)

### Fixture Time vs. Activator

**Mitrelock®** activator may be used with cyanoacrylates where a faster cure speed is required. Fixture times of less than 2 seconds can be obtained with most Mitrelock instant adhesives. Testing on the parts to measure the effect is recommended.

### Fixture Time vs. Bond Gap

The product should be applied in a very thin line in order to ensure rapid polymerisation and a strong bond. Excessive bond gaps will result in slower fixture times.

### Fixture Time vs. Humidity

Instant adhesives require surface moisture on the substrates in order to initiate the curing mechanism. The speed of cure is reduced in low-humidity conditions.