

Technical Information

Mitrelock® Thin (Transparent)

Mitrelock Thin, is a thin, transparent, instant adhesive for filling, bonding and strengthening Hairline Cracks in wood. Used for pen turning, knife making, wood-turning, marquetry, parquetry, jewellery making, antique conservation as well as archaeology in fossil and artefact preservation and protection. Also used as a finish in turned wood

Physical Properties

Liquid State		Cured State	
Base	Ethyl Cyanoacrylate	Colour	Transparent
Colour	Transparent	Specific Gravity (20°C)	1.1-1.3
Specific Gravity (20°C)	1.05-1.06	Service Temperature	-55 °C to 80°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)	2-3		



Typical Bond Strength

5 to 21 N/mm2

Hot Strength

Mitrelock® Thin instant adhesive is suitable for use at temperatures up to 80°C. At 80°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

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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.