

MT43 Threadlocker



Description

MT43 from Multicomp is a medium - high strength, thixotropic anaerobic threadlocker. MT43 is formulated to lock all nuts and bolts, preventing vibration loosening and to seal against leaks through threaded components. The product will cure when confined in the absence of air on close fitted metal components. MT43 is slightly oil tolerant however best results are obtained with clean substrates.

Properties of Material

Properties	Value	Unit
Chemical type	Dimethacrylate	
Appearance	Blue	
Specific Gravity	~1.04	
Viscosity*	10,000 - 18,000 14,000	(Range) cPs Typical Value cPs
Viscosity**	2,500 - 4,000 3,300	(Range) cPs Typical Value cPs
Breakaway Torque***	12 - 25 19	N/m Typical Value N/m
Prevail Torque***	5 - 15 10	N/m Typical Value N/m
Fixture Time****	≤15	Mins.
Full Cure @ 20°C	24	Hours
Max. Gap Fill	0.3	mm
Flash Point	>100	°C
Shelf Life @ 20°C	12	Months
Temperature Range	-50 to +150	°C

* Brookfield RVT, spindle 3, Speed 2.5rpm

** Brookfield RVT, spindle 3, Speed 20rpm

*** On M10 black oxide steel bolt and M10 bright steel nut, ISO 10964

**** ISO 10964

Curing Performance

Typical curing speed**** as % of final strength

15 Minutes Finger Tight

3 Hours ~60% strength

24 Hours 100% strength

Cure Speed Vs. Temperature

All figures relating to cure speed are tested at 21°C. Lower temperatures will result in slower cure. Heating the assembled parts accelerates the curing process.



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Cure Speed Vs. Bond Gap

The size of the bond gap greatly affects the speed of cure of anaerobic adhesives. The larger the gap between surfaces, the slower the cure speed. Maximum recommended gap for the product is 0.3mm, which will give approximately the cure schedule as detailed in the properties table.

Chemical / Solvent Resistance

Multicomp anaerobics exhibit excellent chemical resistance to most oils and solvents including motor oil, leaded petrol, brake fluid, acetone, ethanol, propanol and water. Anaerobic adhesives and sealants are not recommended for use in pure oxygen or chlorine lines.

Typical Environmental Resistance

Hot Strength

This is suitable for use at temperatures up to 150°C. At 130°C the bond strength will be ~30% of the strength at 21°C

Heat Ageing

This retains ~90% full strength when heated to 100°C for 90 days then cooled and tested at 21°C.

Storage

Store in a cool area out of direct sunlight. Optimal storage conditions are between 8°C and 21°C. Storage outside this temperature range can adversely affect product properties and may affect the stated shelf life.

Part Number Table

Description	Part Number
10ml MT43 Threadlocker	MC001793
50ml MT43 Threadlocker	MC001794

