

KRYLEX®
Adhesives and sealants

KT772
High Strength
Anaerobic Threadlocker

Document No: KX-01-600-2507
Issue: 1
Amendment: b
Date: 30.01.2013
Page 1 of 2

TECHNICAL DATA

PRODUCT DESCRIPTION

KRYLEX® KT772 is a single component, high strength, medium-high viscosity anaerobic thread locking compound, giving improved gap-filling and sealing capability.

KT772 cures when confined in the absence of air between close fitting metal surfaces.

TYPICAL APPLICATIONS

KRYLEX® KT772 is formulated to lock all metric and imperial nuts and bolts, preventing vibration loosening and leakage through the threads. The thixotropic nature of the product prevents run off, dripping and migration after assembly. Once applied, parts slip together easily, lubricated by the adhesive. KT772 prevents corrosion of assembled parts.

PROPERTIES OF MATERIAL

	Value
Chemical type	Dimethacrylate
Appearance	Red
Specific Gravity	~1.10
Viscosity ¹ cPs	(Range) 6,000 - 8,000 (Typical Value) 7,000
Breakaway Torque ²	(Range) 20 - 37 (Typical Value) 27
Prevail Torque ²	N/m Range 15 - 40 Typical 27
Initial Fixture Time ³	(mins) ≤15
Full Cure	(Hrs) 24
Flash Point	(°C) > 100
Max Gap Fill	(mm) 0.20
Shelf Life @ 21°C	(Months) 12
Temp Range °C	Continuous -50 to +150

¹ Brookfield RVT, spindle 2, 2.5rpm

² On mild steel M10 nut and bolt, ISO10964

³ On M10 black oxide steel bolt and M10 bright steel nut, ISO 10964 @22°C

CURING PERFORMANCE

Typical curing speed³ as % of final strength

15 mins	Finger Tight
1 hour	~50% strength
24 hours	100% strength

CHEMICAL / SOLVENT RESISTANCE

KRYLEX® 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.

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.

KRYLEX® KP6497 Anaerobic activator should be used when the temperature is less than 5°C.

CURE SPEED VS. SUBSTRATE

Cure speed and strength vary according to the substrates. When used on mild steel and brass components anaerobic adhesives will reach full strength more rapidly than more inert materials such as stainless steel and zinc dichromate

KRYLEX® KP6497 Activator may be used to accelerate cure speed.

Anaerobic adhesives only cure in the absence of air and with metal part activation.

CURE SPEED VS. ACTIVATOR

Where speed of cure is too slow or the bond gap is very large, **KRYLEX®** KP6497 Activator may be used to accelerate cure speed. The use of an accelerator may reduce bond strength by up to 30%.

Chemence recommends testing on the parts to measure the effect.

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 **KRYLEX®** KT772 is 0.20mm, which will give approximately the cure schedule as detailed in the properties table.

DIRECTIONS FOR USE

KRYLEX® KT772 is suitable for most standard diameter, medium to coarse-threaded screws, nuts and bolts.

Ensure parts are clean, dry and free from oil and grease.

Apply adhesive to all the engaged area. Assemble parts and allow to cure. Wipe excess adhesive from outside of joint.

Product is normally hand applied from the bottle or tube. Dispensing systems are available for high volume assembly applications.

Please contact your **KRYLEX®** representative for further advice on dispensing solutions.

TYPICAL ENVIRONMENTAL RESISTANCE

Hot strength

KRYLEX® KT772 is suitable for use at temperatures up to 150°C. At 130°C the bond strength will be ~50% of the strength at 21°C

Heat ageing

KRYLEX® KT772 retains ~95% full strength when heated to 100°C for 90 days then cooled and tested at 21°C.



KT772
*High Strength
Anaerobic Threadlocker*

Document No:	KX-01-600-2507
Issue:	1
Amendment:	b
Date:	30.01.2013
Page	2 of 2

TECHNICAL DATA

GENERAL INFORMATION

For safe handling of this product consult the Material Safety Data Sheet. **Important:** Product packed in bulk (≥5kg) has a shelf life of 6 months. The material must be filled into smaller bottles/tubes within this time period.

PRESENTATION

Bottles:10ml, 50ml and 250ml.

Available in bulk for use with dispensing systems.

Please Note: When packed an air space above the product is vital to maintain stability.

STORAGE

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.

LIMITATIONS

KRYLEX® KT772 is not recommended on certain plastics as stress cracking can sometimes result. Some anti corrosion chemicals inhibit the cure system in this type of anaerobic.

Trials are recommended to establish whether cleaning of the parts is necessary.

KRYLEX® KP6497 Activator may be required on plated parts.

DATA RANGES

The data contained in this data sheet may be reported as typical value and/or range. Values are based on actual test data and are verified on a regular basis

NOTES

The information contained herein is produced in good faith and is believed to be reliable but is for guidance only. Chemence Ltd and its agents cannot assume liability or responsibility for results obtained in the use of its product by persons whose methods are outside or beyond our control. It is the user's responsibility to determine the suitability of any of the products and methods of use or preparation prior to use mentioned in our literature and furthermore the user's responsibility to observe and adapt such precautions as may be advisable for the protection of personnel and property in the handling and use of any of our products.

® denotes a registered trademark.