

RITE-LOK™ Anaerobic Threadlocker TL 277

Product Data Sheet

Updated : March 2019

Supersedes : New

Product Description Rite-Lok TL 277 is a single component, high strength anaerobic threadlocker. TL277 is of medium-high viscosity, giving improved gap-filling and sealing capability.

Key Features Rite-Lok TL 277 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. TL277 prevents corrosion of assembled parts.

Physical Properties

Chemical Type	Dimethacrylate
Appearance	Red
Specific Gravity	1.1
Viscosity cPs	Range 6,000 – 8,000 Typical Value 7,000

Performance Characteristics

Maximum Gap Fill	0.20mm
Fixture Time	≤15mins
Full Cure	24hrs
Strength Build Up	15 mins = Finger tight 1 hours = ~50% strength 24hours = 100% strength
Breakaway Torque N.m (ISO 10964)	25 – 40
Prevail Torque N.m (ISO 10964)	25 – 40
Chemical compatibility	Anaerobic adhesives and sealants should not be used in pure oxygen or chlorine lines.
Service Temperature Range	-50 to +150°C

Additional Product Information

Anaerobic adhesives only cure in the absence of air and with metal part activation. Adhesive outside the joint will remain uncured and may be wiped away with a cloth.

TL277 is suitable for most standard diameter, medium to coarse-threaded screws, nuts and bolts. Not recommended on certain plastics as stress cracking can sometimes result. Some in this type of anaerobic. Trials are recommended to establish whether cleaning of the parts is necessary. AC64 Activator may be required on plated parts.

Application Techniques	Ensure parts are clean, dry and free from oil and grease. Apply adhesive to all engaged threads. Assemble parts and allow to cure. Wipe excess adhesive from outside of joint. Product is normally hand applied from the bottle.
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Storage Conditions	Keep the adhesive in a cool, dry place away from direct sunlight. Under such conditions shelf life at room temperature will be 12 months. Refrigeration to 5°C gives optimum storage stability.
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Shelf Life	12 months from date of despatch when stored in the original carton at 21°C
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Precautionary Information	Refer to product label and material Safety Data Sheet for health and safety information before using the product.
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Product Use	All statements, technical information and recommendations contained in this document are based upon tests or experience that are reliable. However, many factors beyond control can affect the use and performance of a product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable to the user's method or application.
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Note	Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because we cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendation
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