



RITE-LOK™ Retaining Compound RT38

Product Data Sheet

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Product Description RITE-LOK RT38 is a single component, highest strength anaerobic retaining compound. RT38 cures when confined in the absence of air between close-fitting metal surfaces.

Key Features RITE-LOK RT38 is formulated for bonding cylindrical parts, to give very high strength bonds. Typical applications include locking sleeves onto shafts. RT38 is designed to augment the strength of press fit and slip fit assemblies. Once applied, parts slip together easily, lubricated by the adhesive. RT38 prevents corrosion of assembled parts.

Physical Properties	Chemical Type	Dimethacrylate/Triacrylate
	Appearance	Green
	Specific Gravity	~1.08
	Viscosity cPs	Range 1,800 –3,300 Typical Value 2,500

Performance Characteristics	Maximum Gap Fill	0.25mm
	Fixture Time	≤15mins
	Full Cure	24hrs
	Strength Build Up	15 mins = 10% strength 45 mins = ~50% strength 24hours = 100% strength
	Breakaway Torque N.m (ISO 10964)	Range 20 – 50 Typical 32
	Prevail Torque N.m (ISO 10964)	Range 10.5 – 55 Typical 32
	Shear Strength N/mm² (ISO 10123)	Range 11 – 37 Typical 23
	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.

RT38 is suitable for high strength retaining applications that require medium gap filling. RT38 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. 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. Heating the assembled parts accelerates the curing process. AC64 Activator may be used to accelerate cure and should be used if the application temperature is below 5°C. The use of an accelerator may reduce the final bond strength by up to 30%

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.

Shelf Life 12 months from date of despatch by 3M when stored in the original carton at 21°C

Precautionary Information Refer to product label and material Safety Data Sheet for health and safety information before using the product. For information please contact your local 3M Office. www.3M.com

For Additional Information To request additional information or to arrange for sales assistance, call 0870 6080050
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Product Use All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M 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 3M product to determine whether it is fit for a particular purpose and suitable the user's method or application.

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 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendation

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