



# Technical Data Sheet

## Anaerobic Low Strength Threadlocker – 10ml Bottle RS 473-411

RS 473-411 is a low strength thixotropic anaerobic threadlocker which allows easy disassembly yet provides maximum vibration and shock resistance to threaded parts. It also provides a seal against leaks through threaded components and can be used as a retainer for keyed shafts etc. The low removal torque makes it especially suitable for use on smaller thread sizes, below 6mm where regular disassembly is envisaged.

### Preparation:

Surfaces must be clean, dry and free from oil, grease and certain anti corrosion chemicals. Isopropyl Alcohol (IPA) provides an effective quick drying degreasant, particularly in clean environments and is available from RS in various forms, from wipes to aerosols. Please search under IPA on the RS website.

### Application:

Anaerobics cure in the absence of air and with metal part activation. Spillages and residues outside a joint will not cure and can be wiped away with a cloth. Both bond gap and type of material greatly affects speed of cure. The maximum recommended gap is 0.25mm and mild steel and brass components yield faster curing speeds than more inert materials such as stainless steel and zinc dichromate. Anaerobics exhibit excellent chemical resistance to most oils and solvents including motor oil, petrol, brake fluid, acetone, ethanol, propanol and water and can also act as thread sealant. Testing is essential as for example they may induce stress cracking on certain plastics and some anticorrosion chemicals inhibit the cure system. Heating accelerates the curing process. Apply direct from the bottle.

### Health & Safety:

Please refer to Material Safety Data Sheet (MSDS).

Most up to date versions are retained on the RS website: [www.rs-components.com](http://www.rs-components.com).

### Shelf Life:

12 months from date of receipt from RS if kept unopened in good conditions at 20°C. (See MSDS, section 7)

### Typical Properties:

Chemical Type:	Dimethacrylate
Appearance:	Purple
Specific Gravity:	1.02
Viscosity test 1:	4000-6000 cP, 5000 typical (Brookfield RVT, spindle 2, 2.5rpm)
Viscosity test 2:	1000-2000 cP, 1500 typical (Brookfield RVT, spindle 2, 20rpm)
Breakaway Torque:	5-11 N.m, 8 typical (M10 Black bolt and bright nut, ISO10964)
Prevail Torque:	1-5 N.m, 3 typical (M10 Black bolt and bright nut, ISO10964)
Fixture time:	≤15 minutes at 22°C
Full cure:	24 hours at 20°C
Flash Point:	>100°C
Gap Fill:	0.25mm max
Operating Temperature:	-50°C to +150°C

### Typical Strength Gain Rate:

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