

Introduction

SealXpert™ AT277 Threadlocker is a one component, high viscosity, high strength, super high strength anaerobic threadlocker, with good chemical resistance. It cures when confined between close fitting metal surfaces in the absence of air.

Typical Applications

Prevent loosening and leakage from shock and vibration. Used for permanent locking and sealing M24-M36 threaded fasteners, prevent thread from rust. Typically used for large diameter thread locking and sealing.

Typical Properties of Uncured Material

	Typical Value	Range
Appearance	Red liquid	
Basis material	Methacrylate	
Viscosity (mPa.s)		
Brookfield RVF		
4# Spindle 20rpm	7000	6000-8000
Specific Gravity (g/cm3)	1.12	1.00-1.15
Flash point (°C)		>93
Max. Gap fill (mm)	0.25	
Fixture (min)	25	20-30

Typical Properties of Cured Material

Full curing time (h)	24	
Break Torque (N.m)	30	23-40
Prevail Torque (N.m)	30	23-40
Working Temp (°C)		-50-150

Chemical/Solvent Resistance

Aging under the conditions below and tested at 22°C

Solvent	Temp (°C)	%of Initial Strength		
		100h	500h	1000h
Motor oil	125	100	100	100
Unleaded gasoline	22	100	100	95
Ethanol	22	100	90	90
Acetone	22	95	95	95
Sodium Hydroxide (10%)	40	100	100	70
Hydrochloric acid (10%)	40	100	100	100
Water/Glycol (50%/50%)	87	100	85	85

Directions for Use

For best performance, surfaces should be cleaned, dry and free of grease.

Shake the product thoroughly before use.

Notice

To prevent contamination of the unused product, do not pour back any unused material to the original container.

This product is not recommended for use in pure oxygen and/or oxygen rich systems. It is not recommended on plastics.

Keep away from children.

The product contains acrylic acid and methacrylate ester, which may irritates skin and eyes. It is recommended to use the product at a well-ventilated place.

In case of contact with eyes or skin, rinse immediately with water. If symptom persists, visit a physician immediately.

Please refer to MSDS for more details.

Package

Item No.: AT277 50ml bottle
AT277 250ml bottle

Storage

Stored in a cool and dry location in unopened containers at 8 to 28°C.

The product shelf life is 24 months.