

PRODUCT DESCRIPTION

SG243 is a one-component, medium-viscosity, thixotropic methacrylate-based anaerobic threadlocking adhesive. It cures when confined between close-fitting metal surfaces in the absence of air, preventing loosening and leakage caused by shock and vibration. Its thixotropic nature reduces liquid migration after application. Suitable for active metals (such as brass and copper) as well as passive substrates (such as stainless steel and plated surfaces), it offers high-temperature resistance and oil resistance, and can tolerate slight oil contamination on surfaces. Particularly suitable for locking threaded fasteners in pumps, gearboxes, motors, vehicles and other equipment, and can be disassembled using standard hand tools.

PRODUCT BENEFITS

1. Medium viscosity, thixotropic, reducing flow after application
2. Anaerobic curing, suitable for active and passive metal surfaces
3. Medium strength, removable with standard hand tools
4. High-temperature and oil resistance, tolerates slight oil contamination on surfaces

TYPICAL APPLICATIONS

1. Locking and sealing threaded fasteners (bolts, nuts, etc.)
2. Suitable for threadlocking in pumps, gearboxes, motors, vehicles and other equipment
3. Suitable for active metals (brass, copper) and passive substrates (stainless steel, plated surfaces)

TYPICAL PROPERTIES

Before Curing

Appearance	Blue liquid
Chemical Type	Methacrylate

Fluorescence	Fluorescent under UV light
Specific Gravity 23°C (g/ml)	1.0-1.1
Viscosity 25°C (mPas)	1000-2000
Curing	
Fixture Time 25°C (min)	25-40
Full curing time 25°C(h)	24-72
After Curing (Cured for 24 h at 23°C)	
Tg(°C)	100
Breakaway Torque on Steel Screws (N·m)	15
Prevailing Torque on Steel Screws (N·m)	8
Thermal Conductivity (W/(m·K))	> 0.1
Specific Heat (kJ/(kg·K))	> 0.3
Coefficient of Thermal Expansion (K ⁻¹)	80×10 ⁻⁶

HANDLING AND SAFETY

During handling and use, suitable precautions against toxic hazards shall be taken, and the product shall be used only in well-ventilated areas.

SHELF LIFE AND STORAGE

When stored in the original container at temperatures between 8°C and 21°C, the shelf life is 24 months from the date of manufacture.

PACKAGING SPECIFICATIONS

50 g/bottle, 250 g/bottle, 1 kg/bottle

LEGAL DISCLAIMER

The information provided herein, including recommendations for product use and application, is based on internal laboratory testing conditions and is

for reference only. Shandong Hoobond New Materials Co., Ltd. assumes no responsibility for any tests conducted by users or for any performance results obtained thereby. It is strongly recommended that users perform an evaluation prior to production to confirm the suitability of this product for their intended application.