

TECHNICAL DATA SHEET EDITION: 19/08/18 PRODUCT CODE:

D77SC

PRODUCT DESCRIPTION

Delta 77SC is a medium curing, medium strength anaerobic thread locking compound for bonding and sealing threads and retaining of cylindrical parts.

Delta 77SC is highly resistant to heat, vibrations, water, gases, oils, hydrocarbons and many chemicals.

APPLICATIONS

- Ideal for less active materials such as stainless steel and plated parts.
- Ideal for fasteners between ¹/₄" and ³/₄" (6 to 20mm) diameters.
- Locks and seals threaded joints-nuts, screws and studs with improved oil resistance.
- Meets Military specifications: MIL-S-46163 Type II Grade N and MIL-S-22473E Letter Grade CVV.

ADHESIVE PROPERTIES Composition Dimethacrylate Ester Colour Blue Viscosity Brookfield RVT Spindle 3 @20 rpm 2,250 cps at 25°C 1.07 Specific Gravity ³/₄" / 0.20mm Maximum Diameter of Thread/Gap Filling: > 100°C Flash Point Solvent Content None Shelf Life 2 year

CURING PROPERTIES				
Handling Cure Time	20 minutes			
Functional Cure Time	1 - 3 hours			
Full Cure Time	24 hours			
Breakaway Torque, ISO 10964: M10 steel nuts and bolts N·m	20 N·m 180 lb.in.			
Prevail Torque, ISO 10964: M10 steel nuts and bolts	7 N·m 60 lb.in.			
Break loose Torque, ISO 10964: Pre-torqued to 5 N·m M10 steel nuts and bolts	24 N·m 210 lb.in.			
Max. Prevail Torque, ISO 10964: Pre-torqued to 5 N·m M10 steel nuts and bolts N·m	24 N·m 210 lb.in.			
Compressive Shear Strength, ISO 10123: Steel pins and collars	>8 N/mm ² >1,000 psi			
Temperature Range	-55°C to 150°C			

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PHYSICAL PROPERTIES			
Coefficient of Thermal Expansion ASTM D 696, K-1	80 x 10 ⁻⁶		
Coefficient of Thermal Conductivity ASTM C 177,W/(m-K)	0.10		
Specific Heat, kJ/(kg-K)	0.30		

CHEMICAL RESISTANCE				
Chemical	Temp	% Initial Strength Retained		
		500 hours	1000 hours	
Acetone	22°C	95	90	
Ethanol	22°C	100	100	
Motor Oil	125°C	95	95	
Gasoline	22°C	100	100	
Brake Fluid	22°C	100	100	
Water/Glycol	87°C	90	80	

APPLICATION METHOD

Surfaces should be dry, clean and free of any contamination. Thread locker should be applied to the bolt in sufficient quantity to fill threads. Delta 77SC performs the best in thin bond gaps. This thread locker is specifically formulated to give controlled friction and torque/tension ratio during assembly.

STORAGE

Anaerobic adhesives shall be ideally stored in a cool, dry place in unopened containers at a room temperature between 5°C to 25°C. Please do not return any unused material in its original container.

HEALTH & SAFETY

- Classification: Xi irritant
- Keep out of reach of children
- Refer to product Material Safety Data Sheet (MSDS).

LEGAL NOTE

The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. Delta Adhesives Limited accepts no liability arising out of the use of this information or the products described herein.

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