

DELTA D377

Teflon Filled Anaerobic Thread Sealant

DELTA D377 is widely used for the locking and sealing of metal threaded pipes and fittings. This anaerobic sealant cures when confined in the absence of air between close fitting metal surfaces and prevents loosening from shock and vibration.

DELTA D377 is ideal to seal against gases, water, LPG, hydrocarbons, oils and other chemicals. Excellent thixotropic property prevents migration of the sealant before or during curing.

Physical Properties:

Composition:	Dimethacrylate ester
Colour:	Yellow
Viscosity:	16,000 to 30,000 cps thixotropic
Brookfield RVT @ 25 °C Spindle 6 @ 20 rpm	
Specific Gravity:	1.09
Maximum Diameter of Thread/Gap Filling:	0.30 mm
Flash Point:	> 100 °C
Solvent Content:	None
Shelf Life:	1 year

Curing Properties:

Handling Cure Time:	15-30 minutes	
Functional Cure Time:	3-6 hours	
Full Cure Time:	6-24 hours	
Shear Strength:	> 5 N/mm ² 725 psi	Test Method: ISO 10123
Breakway Torque	11 N.m 100 lb.in.	Test Method: ISO 10964 M10 Steel Bolt & Nut
Prevail Torque	6 N.m 50 lb.in.	Test Method: ISO 10964 M10 Steel Bolt & Nut
Elongation of Cured Film:	> 100%	
Temperature Range	-50°C to 150°C	

Material Physical Properties:

Coefficient of Thermal Expansion, K ⁻¹ ASTM D 696	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	100	90
Ethanol	22 °C	100	95
Motor Oil	125 °C	100	100
Petrol	22 °C	100	100
Brake Fluid	22 °C	100	100
Water/Glycol	87 °C	90	90

Application Method:

Surfaces should be dry, clean, and free of any contamination using D406 Surface Preparation Cleaner. Apply the product liberally to one side of the threaded surface, ensuring complete coverage. To increase the cure speed, spray the uncoated surface with Activator D405 and allow to dry. Using standard practices, assemble and wrench tighten fittings until proper alignment is obtained. Properly tightened fittings will seal instantly to moderate pressure. Maximum strength and resistance properties will be achieved after approximately 24 hours.

For disassembly, use standard hand tools.

General Information:

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

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 to its original container.

Health and Safety:

This product and the auxiliary materials normally combined with it are capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheets (MSDS) for this and all other products being used are understood by all persons who will work with the material.



Warranty: All products purchased from or supplied by Delta are subject to terms and conditions set out in the contract. Delta warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by Delta is considered accurate but is furnished upon the express condition that the customer shall make its own assessment to determine the product's suitability for a particular purpose. Delta makes no other warranty, either express or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or product will not infringe any patent.