Cyberbond

Titan 7680

TECHNICAL DATA SHEET

The power of schesive Inform

Titan 7680 is a single component anaerobic retaining adhesive, which develops high strength in bonding cylindrical parts: it can be applied to retain pulleys, gears, rotors and shafts; as well as to secure bushings, bearings and housing plugs. It will augment shrink and press fit assemblies in demanding vibrational and high-friction applications. Titan 7680 is certified to ANSI/NSF 61 Section 6: Drinking Water System Components.

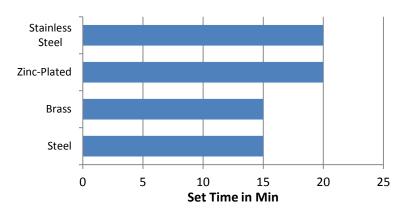
Physical Properties -	Monomer (Uncured)			
Base Compound	Methacrylate Ester			
Appearance	Green Liquid			
Viscosity	1,250 +/- 300 cPs			
	(Brookfield Spindle 3 @ 20 rpm, RVT, 25°C)			
Gap Fill	.015"			
Specific Gravity	1.1			
Flash Point	>200°F / 93°C			
Shelf Life	12 months unopened			
Storage Condition	20°C / 68°F			
RoHS-Compliant	yes			
Physical Properties - Polymer (Cured)				
Appearance	Green Solid			
Locking Strength	High			
Service Temp Range	-65 to 300 °F (-54 to 149 °C)			
Full Cure Time	24 hours			
Pin/Collar Strength	3500 psi			
	24.13 N/mm2			

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	inch-pounds		Newton meters		eters	
Breakaway Torque	150.0	to	300.0	16.95	to	33.90
Prevailing Torque	250.0	to	no limit	28.25	to	no limit

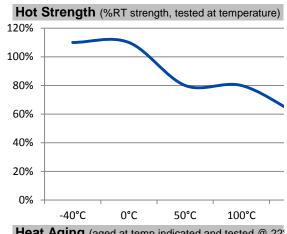
Setting Time / Full Cure Time*						
Steel	15	minutes	/	24 hrs		
Brass	15	minutes	/	24 hrs		
Zinc-Plated	20	minutes	/	24 hrs		
Stainless Steel	20	minutes	/	24 hrs		

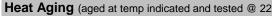
*68°F / 20°C, 65% RH

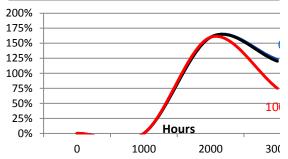


Specifications and Approvals

Mil-R-46082B, Type III; ASTM D-5363 AN 0421







Solvent Resistance

Solvent	Example	Res
Alcohol	Ethanol, Methanol	H
Ester (aromatic)	Ethylacetate	-
Ketone (aromatic)	Acetone, Benzophenone	-
Aliphatic hydrocarbon (alkanes)	Petrol, Heptanes, Hexane	
Aromatic hydrocarbons	Benzyl, Toluol, Xylol	
Halogenated hydrocarbons	Methylenchloride, Chloroform, Chlorobenzol	
Weak aqueous acid	Nitrite, muriatic acid, sulphuric acid, phosphoric acid	+ + + conc
Weak aqueous base	sodium hydroxide solution, caustic potash	+ + + conc

General Instructions

Surfaces to be bonded should be clean and dry and free of grease. Product should be applied in enough quantity to fill all engaged threads. The product performs best in thin bond gaps. Very large gaps may create gaps that will affect the cure speed and overall strength. Good contact is essential. An adequate bond develops in 15 to 45 minutes and maximum strength is attained in 24 hours. This product is not recommended for use in pure oxygen environments and/or oxygen-rich systems and should not be slected as a sealant for chlorine or other strong oxidizing materials. This product is not designed for plastics, particularly thermoplastics where stress cracking of the plastic could result. It is recommended to comfirm compatibility of the product with all substrates prior to use.

Curing Performance

The gap of the bond line will affect set speed. Smaller gaps tend to increase set speed. Activators may be applied to further improve set speed, but may also impair overall adhesive performance.

Note

The data contained herein are furnished for information only and are believed to be reliable. Cyberbond c assume responsibility for the results obtained by of over whose method Cyberbond does not control. user's responsibility to determine suitability for the or of any production methods mentioned herein an adopt such precautions as may be advisable for th protection of property and of persons against any h that may be involved in the handling and use there light of the foregoing, Cyberbond specifically discla warranties of merchantability or fitness for a particular purpose arising from sale or use of Cyberbond prc Cyberbond specifically disclaims any liability for consequential or incidental damages of any kind, it loss of profits. The discussion herein of various preor compositions is not to be interpreted as represe that they are free from domination of patents owne others or as a license under any Cyberbond paten may cover such processes or compositions. We recommend that each prospective user test the pro application to determine its suitability for the purpo intended prior to incorporating any product or appli its manufacturing process using the data as a guid

Storage

Products should be stored unopened in a cool, dry place out of direct sunlight. Products may be refrigerated for improved shelf life, but should be brought back to room temperature before use.



Updated

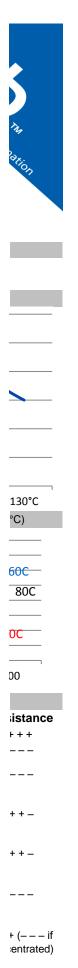
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For safe handling information on this product, consult the Material Safety Data SI (MSDS)



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