

DEADBOLT™ 10

RETAINING GRADE THREADLOCKER



■ EXTREME STRENGTH

ADHESIVE R&D®'s anaerobic adhesives and sealants represent the latest generation in anaerobic chemistry. Anaerobic threadlockers remain liquid when they are exposed to the oxygen in air, but in the absence of air, (or anaerobic environment) these products quickly polymerize and fill the inner space between the surfaces. In a continuous quest to improve the performance of anaerobic adhesive's and sealants, **ADHESIVE R&D®** works with leading edge engineers to push the chemistry forward, to increase cure speeds and bond strengths, and to design products that are able to cure on contaminated or inert surfaces and yet remain stable without special handling.

Deadbolt 10™ is a medium viscosity high strength threadlocker and sealant. **Deadbolt 10™** was designed for high speed manufacturing; specifically to create functional cures in 15 minutes, allowing for end of assembly line quality testing. The State of the Art Mach V cure system, works on passive or active metals. **Deadbolt 10™** is especially effective on aluminum, and plated aluminum parts. The Mach V cure system rapidly polymerizes the adhesive, preventing it from migrating out of the inner space, and creating strong, reproducible bonds and seals.

PHYSICAL PROPERTIES

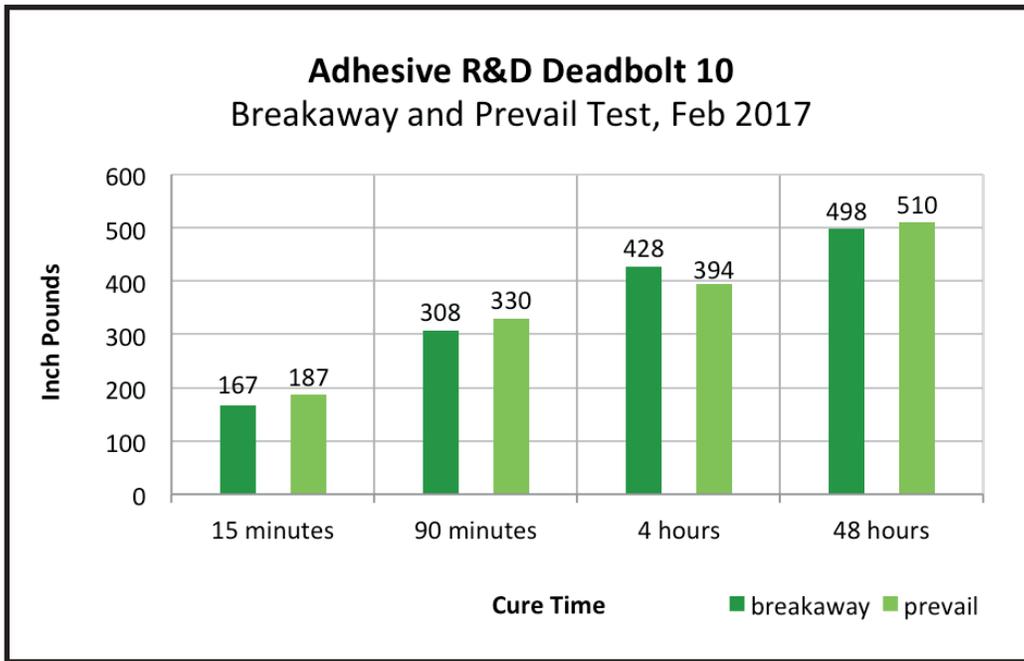
Composition	Anaerobic Methacrylate
Color	Green
Fluorescence	Under Blue Light
Viscosity	600-750 cps
Specific Weight	1.05
Flash Point	>100°F
Solvent Content	None
Shelf Life @ 72°F	2 years

CURING PROPERTIES

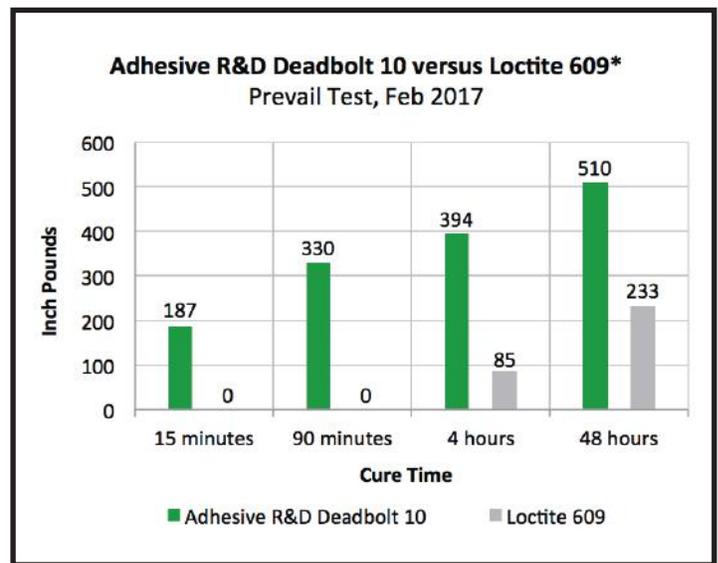
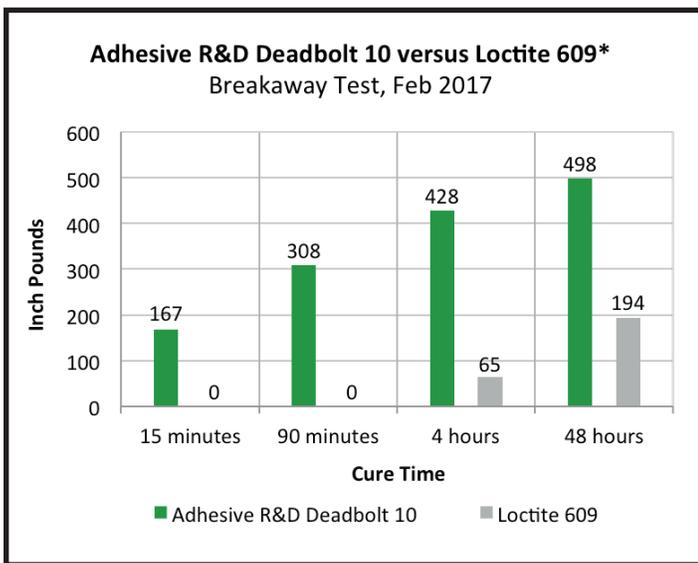
Handling Time	5 minutes 15 minutes > 40% full cure strength
Functional Cure Time	6 minutes - 1 hour
Full Cure	24 hours
Locking Torque	(At 200°C)
Breakaway*	400-500 inch lb's
Prevailing	400-500 inch lb's
Temperature Range	-200°C to 200°C

*Breakaway and prevail torque per ASTM D5363 7.11 Specification.

A rule of thumb when using adhesives is that the thinnest adhesive that wets out across the bonding area, without running out of the bonded area before curing, is the best. This is a challenging proposition when using lower viscosity Newtonian adhesives.



ADHESIVE R&D® answered the challenge by creating **Deadbolt 10™**, probably the fastest curing anaerobic adhesive in this viscosity class. It delivers an incredible 167 inch pounds of breakaway torque in just 15 minutes, when tested in accordance with ASTM D5363.



Deadbolt 10™ is based on proprietary polymer systems reacted in our Wisconsin facility, which delivers more strength at room temperature, or at 400°F, than Loctite®'s* 609®, or other market copies based on similar 1970's technology.

*Loctite® and 609® are registered trademarks of Henkel Corporation, a huge German conglomerate.

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Deadbolt 10™
is manufactured
in Eau Claire, WI