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AST-LOCK™ 09RC

GENERAL PURPOSE RETAINING COMPOUND

Product Description

AST-LOCK™ 09RC is a General Purpose Retaining Compound with a low Viscosity and is best for press fitted or slip fitted parts with .005” or less clearance. Retaining Compounds are designed to be use in non-threaded assemblies such as press fitted parts, locking key, splines, bearing races, bearings to prevent spin out, to bond rotors to shafts in low horsepower motors and slip fitted parts with tight tolerances.

Retaining compounds fill the small voids between these parts to form a monolithic assembly with increased strength and rigidity. Because they fill and seal the voids in the assembly, they also act to prevent corrosion and seal any leak paths between the parts.

AST-LOCK™ 09RC can be used in a wide variety of applications. The lower Viscosity is recommended for assemblies which do not have large gaps to fill.

Retaining Compounds undergoes a chemical crosslinking only in the presence of metal and the absence of air. This is typically referred to as “curing”. The Threadlocker begins to cure right after assembly and reaches full cure in about 24 hours depending upon temperatures. In Colder Climates it may require more time and in Warmer Climates, less time.

AST-LOCK™ 09RC bonds bushings, bearing and gears to shafts creating a plastic shim which seals the joint, prevents corrosion and protects the shaft. It works particularly well with softer more active metals such as Brass, Bronze, aluminum or steel. For Stainless Steel, Titanium, Alloys, plated fittings fittings with a wide gap fill or if the material is being applied in very cold temperatures where a full cure is still needed then a primer may be required to ensure a full cure is achieved. **AST-LOCK™ 09RC** meets MIL-R-46082, ASTM D-5363, and GM-1183024

Cleaning

Retaining Compounds work best if the parts are clean and free of grease, oil, foreign material or old Retaining Compounds. Normally cleaning with an appropriate solvent and / or wiring brushing the parts to ensure they are clean is adequate preparation.

Application

AST-LOCK™ 09RC is normally applied by hand from the bottle ,directly to the part or assembly. A coating is applied and the parts are assembled.

Storage and Shelf Life

For best results and a longer shelf life, Retaining Compounds should be stored at moderate Temperatures under 80 F. The shelf life is around 24 months if it is stored under these conditions. Storage at higher temperatures may shorten it shelf life or result is lower Prevailing Torque values.

Typical Properties

Property	Value
Color	Green
Fixture Speed , no primer	10 -20 minutes @ 76°F
Fixture Speed with primer	<5 minutes
Full Cure Time	24 hr @ 70°F
Viscosity	150 cps
Max. Operating Temp.	-65F to +300° F
Shear Strength	>2000 psi
Primer	Primer N or T
MIL-R-46082B	Type I
ASTM D5363	AN0411
RoHS 3	Compliant
Gap Fill	0.005”

Cautions

This product is not recommended for use in an oxygen system and not as a sealant for chlorine or other strong oxidizing materials. Read all information on labels and Safety Data Sheets prior to use. All products should be tested and evaluated for a particular purpose prior to use.

GHS compliant

[This product requires GHS pictograms on labels. Refer to Label and SDS for GHS information.](#)

Product Limited Warranty

This information is based on information we believe to be reliable and accurate, but no guarantee of its accuracy is made for a particular application. We urge and recommend that Users pretest their application prior to incorporating the product into use and assume that the User will conduct such testing. Also see warranty statement on website.

Available In:

SIZE: 10 ml 50 ml 250 ml
P/N: 39091 39092 39093