

# SUPER SEAL PRO

PROFESSIONAL FORMULA A/C LEAK SEALANT

## Application Guidelines

These guidelines have been prepared to assist automotive technicians in the application of Cliplight a/c maintenance products for maximum benefit.

**NEVER USE SUPER SEAL PRO™ BEFORE THOROUGHLY CHECKING THE A/C SYSTEM FOR OTHER POTENTIAL MALFUNCTIONS. PLEASE NOTE THAT SUPER SEAL PRO™ WILL NOT SEAL A LEAKING COMPRESSOR SHAFT SEAL**

Charge the system and check the compressor. Clutch engaging on demand? Compressor noisy? Any sign of shaft seal leakage? Any of these symptoms can cause compressor failure at a later date with "come-back" consequences.

If replacing the compressor, bench check it thoroughly before mounting. Remove the port caps and hand rotate. No harshness, rough spots or mechanical noise should be evident. If there is, reject it!

Check for a plugged or partially plugged orifice tube (if fitted) or sticking expansion valve (if fitted). Most orifice tubes are easy to remove and check visually. Any plugging will consist of carbon or wear particles from the compressor, another potential compressor failure indicator!

Condenser leak detection should be approached with extra care. The condenser gets hot and is on the high pressure side of the a/c circuit. Leaks that are discovered in the condenser may increase in intensity during operating conditions.

"Phantom" leaks that have been isolated as emanating from the evaporator are normally easy to fix using Super Seal Pro™, but be aware of the potential for split evaporator tube(s), which are somewhat rare but can happen. A more positive leak intensity indicator can be obtained using nitrogen to pressurize the system (185 PSIG), checking for pressure gauge "drop-off".

Complete all checks and make any necessary mechanical repairs before using Super Seal Pro™.

**Note: Due to the possibility of high levels of moisture, especially in older vehicles, it would be advisable to first replace the receiver-dryer accumulator before installing Super Seal Pro™**

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## Frequently Asked Questions

### **How does Cliplight's Super Seal Pro™ Work?**

Super Seal Pro™ is a blended chemical component designed to seal leaks in both the metal and rubber parts of an a/c. Cliplight uses a vacuum packed can and disposable can tapper hose to inject the chemicals into the system. The blended chemicals contain a formulation that is activated by moisture to solidify and plug the leak point. As refrigerant leaks out of the system moisture is created thereby activating the chemical blend that contains additives to penetrate and rejuvenate the polymer parts of an a/c system. The formulation also contains drying agent.

### **Will Super Seal Pro™ clog the valve core as I inject the product into my system?**

No, when the chemical blend is injected into the system, moisture present at the valve core (from exposure to the atmosphere) is removed by the drying agent.

### **Will Super Seal Pro™ harm my system components?**

No, during the injection process drying agents in the chemical blend prevent any sealing activity while in the system.

### **What happens to Super Seal Pro™ while it is in the system?**

The chemical formulation remains in the liquid state inside the a/c until it detects moisture at a leak point and self-seals. It does not affect the lubrication ability of the system oil in any way.

### **What size hole will Super Seal Pro™ repair?**

If the system is leaking slowly and holds a partial charge at least two weeks, Super Seal Pro™ will seal the leak. It will also seal most medium sized leaks, where refrigerant is lost in less than two weeks. However, if the hole is large and the refrigerant charge is lost within 24 hours, the system will need manual repair.

### **What if I have more than one hole in my air conditioning system?**

There is enough Super Seal Pro™ in a single application to seal multiple holes in both the metal and polymer parts of the air conditioning system.

### **How long will Super Seal Pro™ remain in my system?**

Super Seal Pro™ forms a permanent repair when it comes into contact with moisture. If there are no leaks in the system, and therefore no moisture, Super Seal Pro™ will remain in liquid lubricant in the system ready to seal any new leaks.

### **What happens if a line bursts on a system containing Super Seal Pro™?**

Along with refrigerant and lube oil, the Super Seal Pro™ material is blown out of the system.

### **What happens to Super Seal Pro™ if I need to recycle my refrigerant?**

Super Seal Pro™ will be removed from the a/c system with the refrigerant, and then will be separated from the refrigerant with the reclaimed oil. Under these circumstances it becomes benign and cannot react.

### **Has the chemical technology in Super Seal Pro™ ever been used before?**

Yes, the sealant technology in Super Seal Pro™ has been used for decades in the underground gas transfer industry, sealing leaks in pipes, tanks, compressors, and other gas filled containers.