



AUSTRALIAN OWNED

**YOUNG'S**

ESTABLISHED 1920

MOTOR PRODUCTS

**AUTOMOTIVE RADIATOR PRODUCTS**

## **RADIATOR SUPER SEAL**

**THE BEST YOU CAN BUY**

Super Seal is a natural organic powder non-destructive sealant which permits cooling system repairs. When exposed to hot dry air, the material starts clotting, forming a plug on the hot surfaces around the hole and building upon itself until the breach is sealed. Internal clotting won't occur as the sealant is kept moist and pliable by the cooling system fluid.

In continuous production since 1933, updated periodically to meet modern automobile requirements and processed in a special way to enhance the features of the natural organic fibres to act like a clotting agent for your cooling system fluid.

It is environmental friendly, safe to use, undoable, non-destructive, 100% Australian organic sealant. Designed to stop leaks in the radiator, cylinder head and other areas of a water based cooling system. A water soluble organic powder that will not cause harm to any components of your cooling system and is compatible with all water based automotive glycol coolants.

Depending upon the leak, usually a "cap full" to  $\frac{1}{3}$  of the vial will suit most needs and seals within several minutes. The engine must be kept running and water levels watched for the sealant to work efficiently.

Super Seal provides a temporary repair until more effective repairs can be done. Our sealant has a long shelf life and is reversible, so you can "undo" the sealing action. It is also very effective on gasket weeping and those similar type problems.

### **How long does it last?**

In storage Super Seal will keep for years in its vial when stored in a dry place e.g. boot, glove compartment or tool box.

For gasket weeps Super Seal can last months, generally between vehicle services. Over the decades customers have informed us they have left Super Seal in for years and it has kept the hole(s) plugged. *We do not recommend reliance on the sealant for such long times but acknowledges these satisfied results from our customers.*

## How does it work?

When you apply Super Seal powder to your cooling system fluid, Super Seal floats on top at first, then in a few seconds most of the powder sinks into the cooling system fluid. The blended organic material is now saturated and flows around with the fluid waiting for exposure to external hot dry air. When exposed, the material starts clotting forming a plug on the hot surfaces around the hole and building upon itself until the breach is sealed. Internal clotting is arrested as the sealant is kept moist and pliable by the cooling system fluid. Super Seal can take seconds to several minutes to stop the smallest of weeps to fist size or bigger holes in radiator cores. It is only a matter of time, enough sealant and water for Super Seal to do its job. For best results use in a well maintained vehicle and only apply Super Seal when needed. Super Seal is compatible with all glycol/water based coolants.

## What's in it?

Without giving the trade secret away it is made from a blend of natural organic fibres. Super Seal is a fine dry multi-tone brown powder with a mild organic odour. Processed a special way to enhance features of the organic fibres and enable them to react as a sealant in water. Unlike other sealants it is safe to handle, if released onto the road will not affect the environment and starts working to plug the leaks within a few moments.

Other Sealants	Some competitor products on the market can harm your cooling system or you! e.g. permanently block radiator tubes, clog thermostat, gum up the water pump or increase the corrosion factor of the cooling fluid. They stop leaks all right and the next day when you start your vehicle, the motor overheats very quickly and stalls or shuts down ....
Quick Fix	These sealants tend to assume a "get you home/to safety" by the end of the drive, where you'll get the leaks fixed the next day; but in reality you are rarely able to get things fixed the next day and weeks may go by, so it's a good idea to get a sealant that won't do damage to system components or need an aggressive dissolving agent or even worse, parts replacement (thermostat, water pump ... ) at repair time.
Slow Fix	These sealants cannot stop the leak right now, you need to follow a procedure and use several products to stop the leak. These are usually kinder to system components but you need time and resources handy. So for "on the road" problems where most leaks are discovered/occur it is not very practicable, but these products are the most commonly found at service/refuelling stations, where you can purchase the resources (parts, coolant, cleaners) which force you to make the time to allow the sealant process to work.
<b>Young's Super Seal</b> is an organic "quick fix" sealant, but without the problems of a chemical quick fix product. <b>Super Seal</b> is the best, simple, safe to use, true to label and it works with a 70+ year proven track record.	

## At repair time

The repair simply flushes the cooling system, knocks away the dry sealant from the hole or around the leaking gasket and then repairs the hole or replaces the faulty gasket. Recharges your cooling system with an appropriate coolant as per your automobile's handbook and your back on the road .... *hopefully with a fresh vial of Super Seal if another cooling system leak ever happens.*

## How to use Super Seal

You will need a rag and clean water.

**Caution : Potential steam burn – take care – cooling system fluid may be hot!**

1. Turn off car heater (for efficiency, unless leak is in car heater).
2. Use a dry cloth or rag to open your radiator cap. Check coolant level and top up if necessary with clean water or coolant.
3. Run engine to normal operating temperature (with cap on or off if stationary).
4. If your cooling system fluid is clean, (usually green or red) pour a cap full to  $\frac{1}{3}$  of the vial into the radiator.
5. Keep engine running until leak stops (typically 5-15 minutes).
  - a. Keep an eye on the vehicles engine temperature indicator for overheating.
  - b. Check the hole(s) and water level again.
  - c. If the leak is still weeping badly add another cap full to a third and add "clean" water if the level is down. If overheating engine STOP, see "Too much at patch time".
  - d. 4 & 6 cylinder vehicles use cap full to one third at a time, maximum 1 vial.
  - e. 8 cylinder vehicles, trucks, tractors or any engine with a large water/glycol based cooling system capacity : start with  $\frac{1}{3}$  and add **no more** than 2 vials.
6. After 30 minutes car heater may be used. Have your vehicle serviced as soon as practicable. Refill cooling system with correct percentage of coolant, typically 50% if you have only added water to the system (you may have diluted the coolant too much).

If radiator has NO cap – it is probably a closed coolant system. These have an overflow/flow through bottle, add above to this bottle.

## Too much at patch time

1. Discard the coolant thoughtfully (not into waterways or storm water drains).
2. Reverse flush the cooling system with water.
  - a. Refill by gravity with water into radiator top tank and circulate/drain through.
3. If you feel you have flushed the system enough, refill with clean water and try again.

***This information is a guide only, your particular circumstances may require special treatment – If in doubt about doing any of the above – call in an expert.***