



Size	Cooling System Capacity
250ml	Up to 8 litres
500ml	Up to 15 litres

Wondarweld is a heavy duty repair for cracked engine blocks.

- Permanently seals major cracks in:
 - Engine Block
 - Cylinder Head
 - Water Pump Gaskets
- Suitable for steel, iron and aluminium engines.
- Can prevent need for engine rebuild.
- Peel & read back label with full instructions and precautions before use.

IMPORTANT:

THIS PRODUCT IS FOR EXPERIENCED AMATEUR AND PROFESSIONAL MECHANICS ONLY.

NEVER POUR WONDARWELD INTO OIL AS THIS CAN CAUSE SERIOUS DAMAGE TO THE ENGINE.

WONDARWELD IS NOT COMPATIBLE WITH ANTIFREEZE AND COOLANT FLUIDS.

USERS MUST BE STRONGLY ADVISED TO READ ALL PRECAUTIONS, USAGE AND DOSAGE INSTRUCTIONS CAREFULLY PRIOR TO USE.

USES OF THE PRODUCT	
EXTERNAL LEAKS (coolant to air)	
Problem	Symptoms
Cracks in cylinder heads or engine blocks.	Loss of coolant, pools under vehicle.
INTERNAL LEAKS (oil in coolant & coolant in oil)	
Problem	Symptoms
Damaged cylinder head gaskets.	Coolant contaminated with oil. Oil contaminated with coolant or so called 'mayonnaise'.
Gas in coolant, such as internal cracks and damaged cylinder head gaskets.	Loss of compression, bubbles entering the expansion tank, white exhaust smoke.

PRECAUTIONS BEFORE USE:

- This product is for experienced amateur and professional mechanics only. We strongly advise users to read all of this information carefully prior to use.
- Wondarweld is not compatible with antifreezes and coolant fluids. Before use, empty and flush the entire cooling system with plenty of water with the heater matrix open. After use, empty and flush with plenty of water before filling the cooling system with antifreeze/coolant.
- Never pour Wondarweld into oil as this can cause serious damage to the engine. If the oil becomes red coloured, change oil immediately.
- Wondarweld must not be added directly into the cylinders. It is not a Piston Seal product.
- Do not use Wondarweld if during use the vehicle will be exposed to temperatures below 0°C.
- Wondarweld is not suitable for use on vehicles fitted with piston liners.

USAGE INSTRUCTIONS AND DOSAGE:

- One 250ml bottle treats engines with cooling system capacities of up to 8 litres. For systems with more than 8 litres capacity use the 500ml version of the product. The concentration of Wondarweld has to be between 3 and 6% of the cooling system capacity.
- Shake the bottle well before use.

1) FOR EXTERNAL LEAKS (coolant to air) & INTERNAL LEAKS (oil in coolant or coolant in oil)

- With engine cool, remove the top hose from the cylinder head outlet and remove the thermostat.
- Pour the required amount of Wondarweld into the cylinder head outlet and replace the thermostat and top hose.
- Refill the cooling system with clean water.
- For external cracks, plug any visible leak with steel wool.
- To make the repair, run the engine until no water is lost (typically between 15 mins and 2 hours) Top up with clean water as necessary as the repair is made. N.B. With Wondarweld in the cooling circuit you should only use your car at moderate speed / load.
- After repairing leave engine to cool, empty and flush with plenty of water until the water runs clear before filling the cooling system with antifreeze/coolant.

2) FOR INTERNAL LEAKS (gas in coolant)

To effectively repair these kinds of leaks it is necessary to decompress the defective cylinder and run the engine on a reduced number of cylinders.

- For petrol engines with electronic fuel injection systems, with the engine cool, remove the spark plug and disconnect the fuel line for the injector of the decompressed cylinder.

Caution: If the fuel line is not disconnected damage can be caused to the catalytic converter. Only follow this procedure if the fuel line can be disconnected. Do not use this procedure for petrol engines fitted with a carburettor as the fuel line cannot be disconnected. For modern electronic ignitions, when running with spark plug removed, the spark plug must be connected to its spark plug lead and earthed to the engine to avoid damage to circuitry. Check with a professional if unsure.

- For diesel engines, with the engine cool, remove the diesel injector fuel line and either the heater plug or injector.
- Follow steps a) to c) in section 1) above.
- Run the engine for 15 minutes on the reduced number of cylinders.
- After repairing leave engine to cool, empty and flush with plenty of water before filling the cooling system with antifreeze/coolant.