



data sheet

Puncture Sealant

Product Information

Pro-Ma Puncture Sealant is a chemical solution puncture sealant which, when installed inside a tyre, can provide full time protection against air loss through the tread area for the entire legal life of the tyre. Pro-Ma Puncture Sealant has a revolutionary chemical structure that enables this puncture sealant to remain fluid, so that it is able to immediately seal any puncture up to 1/4" (6mm.) diameter in the tread area.

It is suitable for all types of pneumatic tyres. Pro-Ma Puncture Sealant has proved completely effective for more than 18 years in sealing punctures in the tread area of tubeless tyres as stated above. Due to inherent characteristics of tube type tyres, it has been found to be effective in approximately 75% of applications. An inner tube tends to squirm when driving and pull away from a puncturing object. This action makes the sealing process less effective.

Characteristics

Pro-Ma Puncture Sealant combines a water soluble glycol based solution with natural fibres, artificial fibres, adhesion agents, drying agents, corrosion inhibitors and other solids. It is designed to keep fibres and solids in constant suspension. Because there is no setting of the solution inside the tyre, or settling of the solids, the Pro-Ma Puncture Sealant is always ready to seal punctures in the tread area.

No mixing, stirring or other preparation is necessary.

The adhesion qualities of the Puncture Sealant coupled with the fact that the product remains fluid when installed in the tyre, provides constant protection against punctures in the tread area. The corrosion inhibitors help protect against rust or corrosion resulting from moisture which can be introduced into the tyre during the inflation process. This moisture can rust wheels and the steel belts in the tyre beads.

How Puncture Sealant Works

The Pro-Ma Puncture Sealant is installed quickly and



easily through the valve stem. **Average installation time is just minutes per tyre.** When the vehicle is driven, the rotation of the wheel and the centrifugal force causes the entire surface inside the tread area to be coated with Puncture Sealant.

The adhesion properties of Pro-Ma Puncture Sealant keeps the solution in place at all times and allows it to be ready to seal the source of the air loss in the tread area.

The tread area of the tyre is now protected against porosity leaks and punctures up to the specified size for the remaining legal life of the tread.

The Pro-Ma Puncture Sealant, installed in the tyre, also helps to dissipate heat generated by road friction allowing the tyre to run cooler. Cooler operating temperature and reduction of air loss through porosity etc., can

increase tyre life by up to 30%.

When a puncture occurs, the centrifugal force in the rotating tyre and internal air pressure forces the Pro-Ma Puncture Sealant into the hole. Only a small quantity of air is lost.

A permanent seal is created as the hole is packed with fibres and solids. Some of the Pro-Ma Puncture Sealant will pass through the hole to the outside of the tyre where it dries rapidly and forms a permanent seal.

When the puncturing object is removed, the vehicle should be driven to repeat the above procedure.

Pro-Ma Puncture Sealant will not seal leaks caused by a previously repaired tyre with a plug fitted, or if rubber is removed from a tyre, such as when a screw is pulled out instead of unscrewing it from the tyre.

The Domestic grade is capable of sealing punctures up to 1/4" (6mm.) diameter. The Commercial grade is capable of sealing larger punctures.

Pro-Ma Puncture Sealant should only be added to balanced road worthy tyres when used in on-road vehicle operation.

Installation

Pro-Ma Puncture Sealant is available in two grades:

Domestic - 500mL bottles and 20 Litre plastic drums with separate calibrated pump. Product coloured blue is for use in tyres for Cars, Motor Cycles, Bicycles, Trailers, Caravans, Golf Buggies, Ride-on Mowers and Domestic 4WD vehicles used predominantly for high-way use.

Commercial - 20 Litre plastic drums with separate calibrated pump. Product coloured white is for use in tyres for light commercial vehicles, 4WD vehicles, trucks, buses, fork lifts.

Domestic Tyres

Ensure you have access to a means of inflating the tyres.

1. Position valve at approximately 4 o'clock or 8 o'clock.
2. Cut tip from applicator nozzle.
3. Support the axle or suspension. Use the tool sup-

plied to remove valve core from tyre, and allow to deflate fully.

4. Push the plastic tube firmly over the valve stem and insert nozzle in the tube.
5. Squeeze the recommended quantity of Puncture Sealant in the tyre.
6. Replace the valve core and inflate the tyre to manufacturer's recommended pressure. Replace the valve cap, remove the support.
7. Repeat the procedure for the remaining tyres.
8. On completion, drive the vehicle at least 8 km (5 miles) to distribute Puncture Sealant evenly around the tread area.

Commercial Tyres

Wear protective eye glasses. Support the axle, deflate tyre to below 50 p.s.i. (345 kPa), and connect pump fitting to valve stem. Extend pump plunger fully. Set stop on pump plunger to correct number of fluid ounces then depress plunger slowly to the stop to inject the correct quantity of Puncture Sealant. Remove the fitting and re-inflate the tyre to Manufacturer's specified pressure. Replace the valve can, remove the support. Drive the vehicle at least 8 km (5 miles) to distribute Puncture Sealant evenly around the tread area.

Where The Tyre Size Is Not Shown:

Formula

Tyre height (inches) multiplied by tread width (inches) divided by the following ratios:

Domestic

Cars and 4WD vehicles. Height multiplied by width divided by 20 = Fluid Ounces

Commercial

- Light trucks, Small buses and 4WD vehicles, (15" rim and above). Height multiplied by width divided by 20 = Fluid Ounces
- Heavy Duty Trucks and Semi Trailers. Height multiplied by width divided by 7.7 = Fluid Ounces
- Low Speed Tyres (Up to 40 km per hour). Height multiplied by width divided by 5.7 = Fluid Ounces.

1 US Fluid Ounce = Approx 30 mL.



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