



The most effective puncture protection solution Worldwide.



**Puncture Protection Engineered  
& Produced in the UK**

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## TYRE PROTECTOR HISTORY

It took many years of research, development and testing before Tyre Protector was made available to the public in 2003. After years of experience in the commercial vehicle sector it was a familiar sight to see the poor performance of similar products on the market. The objective was to produce the most effective sealant product available and when key decision makers in the tyre industry described Tyre Protector as "astonishing" It was evident that the original objective had been reached.

Throughout the development stages, the company committed and worked with some of the leading chemists in the UK and commercial tyre users around the world ensuring that Tyre Protector addressed all the shortcomings of similar products and outperformed them in every way. Having the vision and foresight to see the enormous potential in this rapidly growing industry Tyre Protector was built into a successful global business based on the highest standards of honesty and integrity. The business was initially developed through franchising, but straightforward distribution is now the favoured approach.

Tyre Protector now receives frequent recognition and accreditation from around the world and is used extensively by government departments, the military, emergency service vehicles, plant, construction, mining, agricultural vehicles, commercial vehicles, taxis, private motorists, and motorcyclists.

Tyre Protector is suitable and beneficial to the users of almost every pneumatic tyre.



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## WHAT IS TYRE PROTECTOR?

Tyre Protector is a liquid, Mono Propylene Glycol, water based (gel) puncture sealant that is injected into tubeless, pneumatic tyres that offers puncture protection for the life of the tyre. After Tyre Protector has been installed, if the tyre encounters a puncture, air pressure inside the tyre forces the sealant into the wound forming an instant and permanent repair.

The glycol base makes it a very consistent sealant which will not freeze, separate, or dry out under adverse conditions. In addition, because the glycol base is mixed with more than 20 ingredients to produce the formula, it makes Tyre Protector the most advanced Tyre Sealant available on the market. Tyre Protector sealant withstands heat, cold and centrifugal forces that are imposed on sealants following installation in the tyre. It takes only a small amount of Tyre Protector sealant to repair a puncture, therefore there will be enough material left inside the tyre to remain effective against many more punctures to come!

### Environmentally safe

Tyre Protector is non-hazardous, non-toxic, and biodegradable. The product is water soluble and may be washed away with water.

The manufacturing processes used to produce our sealants are compliant with the requirements of international environmental standard ISO14001.

### Wheel Balance

Tyre Protector will not cause wheel imbalance when correctly installed and will not affect the balance of your tyres.

### TPMS

Tyre Protector is safe to use with TPMS systems.

## SUSTAINABILITY



Tyre Protector recognise that as an organisation we must integrate our business values and operations to meet the expectations of our stakeholders. They include customers, employees, investors, suppliers, the community, and the environment.

- We recognise that our social, economic, and environmental responsibilities to these stakeholders are integral to our business. We aim to demonstrate these responsibilities through our actions and within our corporate policies.
- We take seriously all feedback that we receive from our stakeholders and, where possible, maintain open dialogue to ensure that we fulfil the requirements outlined within this policy.
- We shall be open and honest in communicating our strategies, targets, performance, and governance to our stakeholders in our continual commitment to sustainable development.

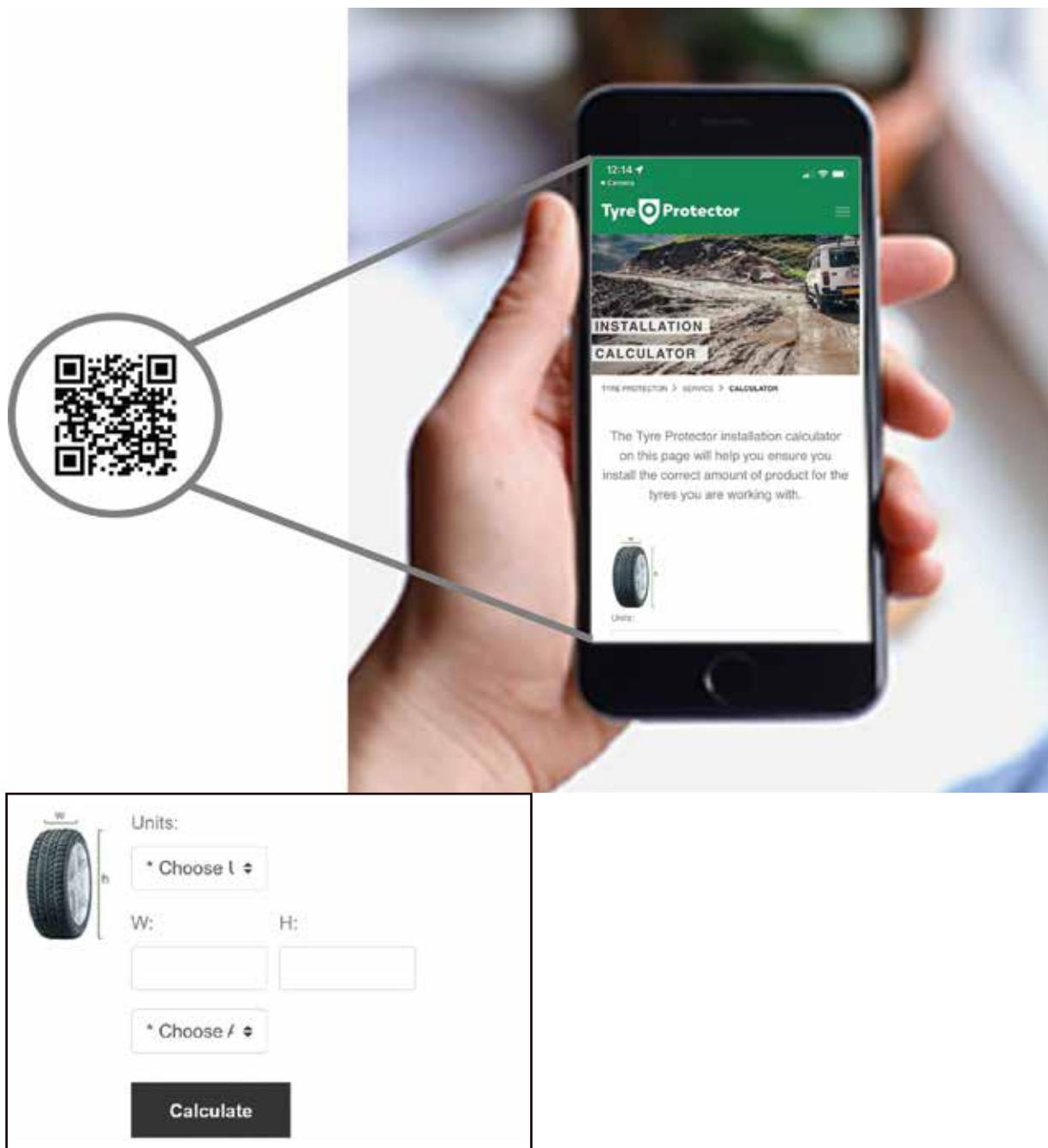
Further initiatives and controls that we follow in the development and production of our product to ensure minimal impact on the environment are:

- Conformity to ISO14001
- All waste streams recycled, 0% of waste goes to landfill
- Needs & expectations of all interested parties are fully realised
- Energy management initiatives
- Approved suppliers & contractors, considerate sourcing of materials
- Rainwater harvesting

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## INSTALLATION CALCULATOR

The step-by-step installation calculator on the website which, can be accessed by scanning the QR code below will help ensure the correct quantity of product is installed into the tyres that you are working with.



## HD - HEAVY DUTY



**For industrial applications in OTR, forestry, mining, trucks, skip wagons and agricultural tyres**

Suitable for puncture wounds of up to 12mm diameter

### Benefits

In addition to repairing tread area punctures, Tyre protector will also:

- Reduce bead-leaks
- Reduce rim leaks
- Reduce porosity leaks
- Increase tyre life
- Reduce downtime
- Reduce maintenance costs



Part No:  
25L : 001S-025-DR25  
1L : 001S-001-DR01

### Application

**1** Remove the valve core from the tyre valve.

**2** Connect the dosing pump to the valve and turn on the valve tap.

**3** Pump the prescribed amount of Tyre Protector sealant into the tyre following calculating the correct amount using the online calculator.

**Each pump stroke delivers 100ml of sealant into the tyre.**

**4** Switch off the valve tap and remove the pump from the valve.

**5** Blow a small amount of air through the valve prior to reinserting the valve core.

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## HS - HIGH SPEED



**For industrial applications in trucks, skip wagons, trailers, caravans, ATVs and passenger cars\***

Suitable for puncture wounds of up to 6mm diameter

### Benefits

In addition to the benefits brought in with HD, HS will also allow higher speed vehicles to operate puncture free.



Part No:

25L : 002S-025-DR25

5L : 002S-005-DR05

1L : 002S-001-DR01

\* Note: passenger cars are a temporary fix only

- 6 Insert a new valve core (recommended).
- 7 Re-inflate tyre to required pressure.
- 8 Ensure that the vehicle is driven for a minimum of five minutes to enable the tyre sealant to spread and form a protective barrier around the circumference of the tyre.

**Also see page 10**

## GS - GUMI SEAL



### Bicycle tube sealant

Suitable for bicycles & motorcycles

#### Benefits

- Fixes puncture wounds up to 3mm
- Minimal weight added
- Puncture free adventure awaits
- Available in 125, 250, 500, & 1000ml bottles
- Can be used in tubed tyres



#### Application

- Remove valve core
- Insert Gumi Seal through the valve
- Re-insert valve core
- Inflate
- RIDE

**Also see page 7**

Part No:

1L : GUMI-000-TP01. Sold in cases of 12

500ml : GUMI-500-TP01. Sold in cases of 24

250ml : GUMI-250-TP01. Sold in cases of 36

125ml : GUMI-125-TP01. Sold in cases of 48

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## ACCESSORIES



### Valve cores

This is a recommended service item to ensure optimum performance and safety of the valve.

**Part number:**  
**CORE-100-TP01**



**Pack quantity:** 100 pieces

### Pumps

Sealant pump with inline shut-off valve, complete with adapter to fit directly to Tyre Protector 25ltr drums.

- 100ml dosing / stroke. Also available in 250ml stroke
- Made in the UK

**Part numbers:**

100ml - **PUMP-100-TP01**  
250ml - **PUMP-250-TP01**



### Valve keys

A required tool to install tyre sealant into your tyres. For removal / re-fitting or replacement of the valve core.

- Double ended key to cover passenger and commercial applications.
- Chrome plated for longer life

**Part number:**

**VALV-100-TP01**



### Tyre mounting grease

Heavy duty tyre mounting grease to assist the tyre fitter with the mounting of OTR tyres prior to the installation of Tyre Protector.

- 5kg bucket with 'click seal' lid
- Not suitable for passenger vehicles
- Application brushes also available

**Part numbers:**

**Mounting grease: 101G-500-BU01**

**Brush: BRUS-10-TP01**



## INSTALLATION PROCESS



Position the valve between 3 & 8 o'clock & remove the valve core from the valve.



Connect the dosing pump to the valve and turn on the valve tap.



Pump the prescribed amount of sealant into the tyre following calculating the correct amount using our online calculator.

**Each pump stroke delivers 100ml of sealant into the tyre.**

Units:

\* Choose l ↴

W:  H:

\* Choose f ↴



Switch off the valve tap and remove pump from valve.



Blow a small amount of air through the valve prior to reinserting the valve core. TP recommends that a new core is used.



Re-inflate tyre to required pressure.

Ensure that the vehicle is driven for a minimum of five minutes to enable the tyre sealant to spread and form a protective barrier around the circumference of the tyre.

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## TRUCK PROTECT



To complement the range of high-quality tyre sealants and accessories an extensive range of vehicle maintenance chemicals have been introduced such as truck washes, shampoos & waxes under the brand Truck Protect.

Our mission is to offer the complete chemical package through the distribution network to service the end user.

All our products are fully compliant, and market tested in some of the harshest environments. Our production site follows strict production and environmental compliance requirements which ensures that high quality and consistent products are offered to our customers.

As well as the extensive product range listed below, we are also able to offer bespoke solutions through the distributor network. Please enquire with our sales office for further details.

Tyre Levers  
Inflation Gauges  
Frozen Brake Check  
Wheel Nuts  
Specialist Tyre Valves

Barrier Creams  
Hand Sanitisers  
Hand Soap  
Hand Gels  
Pumice Soaps  
Nitrile Gloves

Tyre Mounting Grease  
Chrome Cleaner / Polish  
Truck Shampoo / Washes  
Traffic Film Removers  
Wheel Cleaners Inc.  
Bleeding wheels,  
Film Cleaners.  
  
Tyre Black  
5th Wheel Grease  
Seasonal Screen wash  
Fabric cleaner  
Air Freshener  
Trim / Dash Cleaner  
Copper Grease  
Tar Remover  
Glass Cleaner  
Brake Cleaner





## TESTIMONIAL

### Case Study – Columbia

A service company based in Girardota, Antioquia in Colombia, Dedicated to development and infrastructure construction projects. Having extensive experience in the erection of electromechanical equipment in large plants for products such as cement, pharmaceuticals, foods, chemicals, alcohols, metal and paper and in the construction of distribution centres, warehouses, docks, piers, ports, commercial complexes and housing solutions.

"As manager of the equipment, my responsibility is to keep all equipment moving. Punctures for us mean a waste of time and money. We have a fleet of five International 7600 dump trucks which were suffering approximately 8 to 10 punctures per month.

The more wear the tires experienced, the more punctures occurred. These mostly were caused by stones and foreign elements such as rods and pins. When I first heard about Tyre Protector, I was a little reluctant to believe that the product actually worked. But following a visit from one of the technical tire advisers we decided to put it to the test on one of our vehicles.

After 4 months the results were very good. The dump truck in which we installed Tyre Protector did not suffer from any flat tires which meant that we could increase our productivity.

As a result of the test, we have decided to install Tyre Protector in all our dump trucks and also on our mini-loaders which are working on a hospital construction site and are experiencing frequent punctures.

Based on what we know so far about the performance of Tyre Protector, we believe that we can increase our productivity and save money."

### Fast Facts

#### Location

Girardota, Colombia

#### Description

Company of Civil Works and Mining

#### Type of Vehicle

Dump trucks and skid steers

#### Pre Install of TP

8 to 10 punctures per month

#### Post Install of TP

No flat tyres caused by punctures on dump trucks that had Tyre Protector installed after 4 months in service.

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## TESTIMONIAL



### Case Study – Panama City (Panama)

A company based in Panama City, Panama that sells and rents heavy equipment and is mostly known for their Caterpillar equipment. They have been in the market for 90 years.

"At present we represent approximately 60 different brands, most of them the top ones in the heavy equipment market and we make an effort to offer a professional technical support to guarantee that your equipment is running correctly. As the person in charge of my team, my responsibility is to maintain all the equipment we have at the different construction sites and keep them moving so that we can offer the best service we can to our customers.

We had a Caterpillar 226B Skid Steer rented at the P.H. Esplendor site in Via Espana, and because of the extreme conditions at the site, our biggest problems were the multiple punctures, which occurred 3 to 5 times a week. Each repair had an average cost to the customer of \$25.00 per puncture repaired, a total of \$75.00 to \$125.00 per week, equal to \$300.00 to \$500.00 per month. At first we were not convinced of the product but decided to do a test so we installed Tyre Protector in our equipment, which at that time had clocked up 452 work hours.

The skid steer was still working at the construction site with an additional 260 hours without punctures. Since we installed Tyre Protector, our puncture problems have ended. It has provided excellent results and reduced punctures and costs for the companies by 100%."

### Fast Facts

#### Location

Panama City, Panama

#### Description

Construction Equipment Sale and Rental

#### Type of Vehicle

Skid Steer

#### Pre Install of TP

3 to 4 punctures in a week

#### Post Install of TP

No punctures.

## FAQS



### What is Tyre Protector?

A glycol based, water soluble tyre sealant that when professionally installed will permanently protect tyres against punctures and air loss. Additional benefits include extending the life of tyres and improving fuel efficiency.

### How does it seal punctures?

Tyre Protector forms a thin protective coating between the tyre and the air within the tyre. When a puncturing object penetrates the tyre, air pressure forces the sealant into the wound repairing the damage instantly and permanently.

### Why does it extend the life of the tyre?

A tyre's biggest enemy is excess heat. Excess heat is caused by under inflation. Under inflation is the cause of 98% of blow outs. It can be caused by slow punctures or poor maintenance, but tyre protector will prevent under inflation.

### Why does it improve fuel efficiency?

When a tyre is running at its correct pressure it creates less rolling resistance. To prove this quite easily to yourself try pushing a wheelbarrow with an under inflated tyre.

### What is the lifespan of Tyre Protector?

Providing it is kept in an airtight container, indefinite. In a tyre, the legal life of the tyre.

### Will Tyre Protector damage the rim?

Tyre Protector contains corrosion and rust inhibitors and will not damage the rim or steel belt within the tyre.

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## Can Tyre Protector be used in tubed tyres?

Yes, providing the correct procedure is followed. However, we cannot guarantee the installation because we do not know the condition of the tube.

## Will Tyre Protector affect the manufacturer's warranty?

As Tyre protector is chemically inert and water soluble it does not affect the components of the tyre and will not affect the manufacturer's warranty.

## Will it cause imbalance?

No

## Is Tyre Protector affected by extreme temperature?

Tyre Protector is used extensively in Scandinavia and Australia where temperatures reach plus and minus 45 degrees.

## Will tyre protector form a hard plug when it repairs a puncture?

No. The repair is designed to be flexible to allow it to flex with the tyre.

## Why is Tyre Protector the most advanced puncture protection system in the world?

Tyre Protector is Glycol based and will not congeal or break down like many other sealants. Although there are alternative glycol products available they have not been effective in the extreme conditions that Tyre Protector endures daily. When professionally installed, it will not affect the balance of the Tyre.

## What type of tyres is Tyre Protector suitable for?

Any Pneumatic tyre.

## Is Tyre Protector Environmentally friendly?

Yes. Tyre Protector is fully biodegradable and non-toxic. Furthermore, because it extends the life of tyres it reduces the number of tyres going for scrap. A major environmental issue.

## What is the lifespan of Tyre Protector?

Providing it is kept in an airtight container, indefinite. In a tyre, the legal life of the tyre.

## Will Tyre Protector work against Stingers?

No. A stinger is made up with hundreds of hollow plastic spikes. When a tyre drives over them the spikes brake off inside the tyre to provide a controlled deflation.



## HEAD OFFICE

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