



LIQUID INTELLIGENTS 254 TYRE LIFE EXTENDER/SEALER

Liquid Intelligents 254 converts any pneumatic tyre into a self-sealing tyre that will maintain air pressure. Liquid Intelligents 254 has the unique ability to coat the entire inner surface of a tyre and rim without succumbing to shear and stress associated with centrifugal force that is created within a high speed rotating tyre.

• DESCRIPTION

Once Liquid Intelligents 254 has been installed, it lies dormant at the bottom of the tyre until the vehicle is first driven. Once driven a minimum of three to five kms, Liquid Intelligents 254 disperses throughout the inner air cavity and forms a coating on the entire inner surface of the tyre/rim assembly. The flexing of the tyre and the normal heat build up allows Liquid Intelligents 254 to seek out and eliminate common air loss problems (referred to as porosity, air migration and bead leaks). Liquid Intelligents 254 then transforms the tyre assembly into a sealed air chamber, capable of maintaining proper air pressure. Thereafter, Liquid Intelligents 254 conditions the rubber in order to retard dry rot and aging (hardening) of the casing. One treatment will provide additional longevity and cooler running tyres for the legal tread life of the tyre.

The advanced technological sealing capabilities of Liquid Intelligents 254 stand on guard to seal punctures as they occur. When a tyre is punctured Liquid Intelligents 254 coats the surface of the penetrating object, thus preventing air loss.

When the puncturing object is removed, the rubber recovers and the wound immediately closes, escaping air siphons Liquid Intelligents 254 into the wound. The fibres entwine to create a clot that prevents any additional air from escaping. As the rubber recovers, the wound closes and the strength of the tyre holds the repair in place. The specialized polymers and fibers form the clot, thereby producing an airtight repair. The small amount of Liquid Intelligents 254 that penetrates through the wound, past the belts and out through the tread area is referred to as a repair/clot. Once exposed to the atmosphere, the repair/clot begins to cure. As the repair/clot cures, it makes a positive secure repair that is impervious to water, which totally protects the belts and inner casing from outside contaminants and corrosion.

Liquid Intelligents 254 formulation contains an Acrylic Polymer Emulsion, to withstand heat and the shear forces created within a rotating tyre. The thixotropic emulsion stretches and recovers under mild to severe exposure of the adverse forces and continuously clings to the inner surface of the tyre/rim. The ability to evenly coat the inner surface against adverse conditions and centrifugal force is the reason that Liquid Intelligents 254 Tyre Life Extender/Sealer will not adversely affect a balanced tyre/rim assembly and does not lose the ability to provide protection for the tread life of the tyre. Liquid Intelligents 254's operating temperatures under normal conditions range from -34 °C to + 190 °C.

• SEALING CAPABILITIES

If the tyre's integrity is weakened to a point where the tyre and casing are unsafe, Liquid Intelligents 254 is designed to bleed and slowly release air pressure if the puncturing object has severely damaged the inner structure.

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Liquid Intelligents 254 will not hide or mask a dangerous wound regardless of how small the wound may be. If the integrity of the casing has been breached and safety becomes an issue Liquid Intelligents 254 is designed to allow air to escape in a controlled manner.

• COATING AND CONDITIONING

Liquid Intelligents 254 coats and clings to the tyre's entire inner air cavity, conditioning the inner surface, eliminating air migration caused by porosity and bead leaks.

It is imperative that the proper amount of Liquid Intelligents 254 be installed in a tyre (refer to application chart). In order for Liquid Intelligents 254 to function, the vehicle should be driven approximately 3 to 5 kms (it is not required to immediately drive the vehicle). This initial driving allows the tyre to warm up and the Liquid Intelligents 254 to distribute.

• STANDS ON GUARD

Once the initial driving/usage period has been attained; Liquid Intelligents 254 will be thoroughly distributed throughout the entire inner surface of the tyre/rim.

Liquid Intelligents 254 is a liquid coating that never deteriorates within the tyre and will continuously stand on guard to protect tyres against air loss for the legal tread life of the tyre.

• WILL NOT CURE OR HARDEN INSIDE OF THE TYRE

People often ask, "If Liquid Intelligents 254 cures from exposure to outside air, then why doesn't it cure by the air inside of the tyre?" Liquid Intelligents 254 transforms the tyre and rim into a sealed air chamber. As the vehicle is driven and the temperature of the tyre increases, a portion of the liquid base vaporizes within the tyre assembly's inner air cavity, as the tyre cools, the moisture condensates back into the formula.

The inside air actually becomes part of the system. The sealed air chamber prevents outside air from entering or inside air from escaping. Constant air pressure maintenance is not required. We recommend that tyres and air pressure be inspected during routine Preventative Maintenance programs. Liquid Intelligents 254's ability to maintain constant air pressure does not relieve the driver from conducting visual inspections prior to each trip.

• POSITIVE SECURE REPAIR

When a tyre is punctured, Liquid Intelligents 254 is forced against and around the puncturing object by the inner air pressure, thereby preventing air from escaping. If the puncturing object is thrown out of the tyre by centrifugal force or is pulled out, the inside air forces Liquid Intelligents 254 into the wound and immediately stops air loss. Special fibres entwine, forming a clot, then as the rubber recovers, aided by the tyre flexing as it rotates, the inner air pressure forces the repair/clot well into and through the wound. Once Liquid Intelligents 254 is exposed to the outside air, a chemical curing process begins. The cured repair/clot extends well into the wound, thus providing a repair that is impervious to water. As this repair/clot cures, it is transposed into a permanent rubberised seal, protecting the inner casing and steel belts against contaminants entering the wound.

HOW DOES LIQUID INTELLIGENTS 254 FUNCTION WITHIN A TYRE?

It is important to understand two aspects regarding the performance characteristics of a tyre in order to fully comprehend how Liquid Intelligents 254 Tyre Life Extender/Sealer actually functions, along with- and also as part of- the tyre itself.

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WHAT IS RUBBER RECOVERY?

Rubber recovery within a tyre is very important in conjunction with Liquid Intelligents 254. When a tyre is punctured, the rubber is forced apart by the penetrating object. The wound is actually much smaller than the foreign object that is embedded within.

Rubber has 'memory' and it will return to its original shape after being subjected to adverse conditions or stress. When the puncturing object is removed, the rubber recovers and the wound closes (a tyre that is old and worn, and/or dry rotted will have little or no rubber recovery).

A penetrating object not removed from a tyre and left alone for any extended period of time causes the rubber to temporarily lose its recovery abilities. After removing the object, it is necessary to immediately flex the tyre to 'reactivate' the rubber's memory. As the wound closes, Liquid Intelligents 254 is held in place by the air pressure of the inner tyre, but it is the strength and integrity of the tyre that will then create a positive secure repair/clot.

WHAT IS TYRE FLEXING?

Tyres are constantly flexing when a vehicle is driven. The weight the tyres are supporting, the inconsistent surface of the road, and the rapid rotation of the tyres create a substantial amount of flexing.

Once the puncturing object is removed, it is important for the Liquid Intelligents 254 repair/clot to be forced into and through a wound. Once this is accomplished the repair/clot cures and becomes a positive secure seal.

Removing the puncturing object and then striking the tyre several times with a mallet around the wound area and/or bouncing the tyre against the ground can accomplish manual tyre flexing. This method creates a temporary repair that will become positive once the tyre is returned onto the vehicle and driven approximately 3 to 5 kilometres.

HOW DOES LIQUID INTELLIGENTS 254 PRODUCE A POSITIVE/SECURE REPAIR?

Once the initial driving/usage period has been attained (3 to 5 kilometres), Liquid Intelligents 254 will be thoroughly distributed throughout the entire inner surface of the tyre/wheel assembly. Liquid Intelligents 254's 1mm thick coating has the ability to remain suspended inside the tyre/rim assembly's entire inner air cavity.

The acrylic polymer emulsion is the attribute that prevents Liquid Intelligents 254's formulation from separating or migrating to the tread area.

When a tyre is punctured, Liquid Intelligents 254 is forced against and around the puncturing object by the inner air pressure, thereby preventing air from escaping.

If the puncturing object is thrown out of the tyre by centrifugal force or is pulled out, the inside air forces Liquid Intelligents 254 into the wound and immediately stops air loss. Special fibres entwine, forming a clot, then as the rubber recovers, aided by the flexing of the rotating tyre, the inner air pressure forces the repair/clot well into and through the wound.

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Once Liquid Intelligents 254 is exposed to outside air, a chemical curing process begins. The repair/clot extends well into and through the wound and once cured provides a repair that is impervious to water.

The cured repair/clot is then transposed into a positive rubberised seal, thereby protecting the inner casing and steel belts by preventing outside contaminants from leaching into the wound.

WILL LIQUIDSEAL CURE OR HARDEN INSIDE OF THE TYRE?

As the vehicle is driven, and thusly the temperature of the tyre is increased, a portion of Liquid Intelligents 254's liquid base evaporates within the tyre's inner air cavity. As the tyre cools, the vaporized liquid condensates back into the formula. The inside air is actually becoming a vital part of the Liquid Intelligents 254 system.

The sealed air chamber prevents outside air from entering or inside air from escaping.

Constant air pressure resetting is never required. Tyres and air pressure need only be inspected during routine preventative maintenance programs.

WHAT IS THE ACRYLIC POLYMER EMULSION

The Acrylic Polymer Emulsion allows Liquid Intelligents 254 to cling to the inner sidewalls and the entire inner surface of a properly balanced tyre and rim. The centrifugal force that is created within a high-speed tyre actually stretches the Acrylic Polymer Emulsion much like a rubber band; however, it will not pull the product off the inner surface of a properly balanced tyre and rim.

A sufficiently out of balance tyre and rim create enough adverse force that could pull the coating of Liquid Intelligents 254 from the tyre's inner side walls. If a tyre/rim requires an excessive amount of weights to be installed to achieve a 00 reading on the balancer, the tyre/rim should be inspected for defects and corrected prior to installing Liquid Intelligents 254. Liquid Intelligents 254 cannot correct an existing problem and may aggravate an adverse situation.

The proper amount of Liquid Intelligents 254 for highway speed vehicles has been scientifically calculated to provide the proper coating to the inner surface of the tyre/rim, allowing for absorption into the casing, yet still maintain a reserve.

The reserve (approximately 20% of the installed amount) is extra Liquid Intelligents 254 that will move. Only the reserve will settle to the bottom of the tyre when the vehicle stops. The reserve constantly redistributes as the tyre rotates, Thereby continually providing an even coating. Each time a puncture occurs; a small amount of reserve is used.

ELIMINATES MOST FLATS AND BLOWOUTS

The majority of flats and blowouts are a result of driver negligence. The number one cause being excessive heat generated from under-inflation. The overheated, under-inflated tyre becomes soft and so is vulnerable to being penetrated by foreign objects. However, under-inflation creates additional problems such as tread separations, ply separations and zipper ruptures. The problems detailed above are primarily caused by porosity; natural air migration

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exists in all tyres to some degree.

Fluid Seal eliminates air migration and will ergo work to prevent damage that would be created by under-inflation, thereby preventing most related blowouts.

COMPATIBLE WITH ALL RETREAD METHODS

Liquid Intelligents 254 conditions the casing and arrests aging. The ability to be thoroughly cleaned out of the tyre assures no hindrance for inspection. The product is non-hazardous, non-flammable, does not present a disposal problem and there are zero known compatibility problems.

INSTALLATION EQUIPMENT

The liquid intelligents 254 pumps provide the ability to apply the precise amount of sealant into a tyre whether it is fully inflated or flat

APPLICATION EQUIPMENT

Manual Pump Kit (for 20 Litre deum).

Kit contains: Manual pump, 1.5 metre hose, shut-off valve, and quick-clip chuck.

Large Bore valve stem adapter

The Large Bore application tool attaches to the standard quick-clip chuck (on the end of the pump hose). After manually removing the valve core, attach the tool directly onto the valve stem, proceed with the sealant installation, then manually replace the valve core and re-air the tyre.

BENEFITS AND FEATURES

EXTENDS TYRE LIFE

Liquid Intelligents 254 has been tested and proven to maintain air pressure, retard aging of inner-casing, reduce heat build-up and increase tyre life on an average of over 25% in most cases.

PROTECTS AGAINST UNDER-INFLATION

Liquid Intelligents 254 has the ability to eliminate porosity, air migration and seepage, thereby allowing the tyre to maintain proper air pressure, preventing the inception of most tread separations & zipper ruptures.

INCREASES RETREADABILITY

Liquid Intelligents 254 has the ability to protect against the inception of tread and ply separations caused by air migration between the plies of new and retread tyres, thereby resulting in additional retread cycles and extended casing life.

ARRESTS AND PREVENTS DRY ROT AND CASING DEGRADATION

Liquid Intelligents 254 has the ability to retard dry rot and aging from within the tyre itself, increasing the life of any tubeless tyre casing.

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HEAT REDUCTION (PRIMARY KILLER OF TYRES)

Liquid Intelligents 254 assists in protecting tyres from overwhelming heat build-up, which is associated with friction caused by under-inflation, and/or overloading. Liquid Intelligents 254 contains ingredients whose specific purpose is to aid in conducting heat away from the tyre, by transmitting additional heat to the rim (which is the tyre's natural heat sink), resulting in a cooler running tubeless tyre for any type of equipment or vehicle.

SAFETY FACTOR

Liquid Intelligents 254 provides safety features not found in any tyre. Liquid Intelligents 254 will not mask or hide damage that has compromised the integrity of the tyre. Liquid Intelligents 254 is specially formulated to allow any serious- eg; potentially dangerous- puncture to slowly bleed air and Liquid Intelligents 254 out of the wound, thereby allowing the tyre to deflate in a controlled manner. This attribute provides safety by aiding in alleviating the kind of damage associated with blowouts.

LASTS THE LIFE OF THE TYRE

Liquid Intelligents 254 contains a unique acrylic polymer emulsion agent that protects the sealant against heat and provides the ability to overcome the centrifugal force of a rotating tyre. Liquid Intelligents 254's performance is not diminished by speed, distance or time.

PROTECTS THE ENTIRE INNER SURFACE OF THE TYRE

Liquid Intelligents 254's acrylic polymer provides a coating that clings to the entire inner surface of the tyre/rim assembly. The sidewalls including every square inch of the inner air cavity, retain a 1mm coating of the product, thereby providing protection for the tyre at all times.

POSITIVE SEALING CAPABILITIES

Liquid Intelligents 254 repairs are positive and secure, transforming any tyre into a self-sealing tyre. Liquid Intelligents 254 is capable of sealing punctures caused by objects up to 6mm in diameter, as long as the puncturing object has not severely damaged and/or weakened the tyre's structural integrity. **Liquid Intelligents 254 cannot create a secure repair in any tyre that has major internal damage, regardless of the foreign object's diameter.**

WATER-SOLUBLE (for easy clean up)

Liquid Intelligents 254 is completely water-soluble in its liquid state, and leaves no residue when rinsed with warm water. Yet it will not dissolve within a wound after it has cured. Standard repairing procedures can be utilized without additional effort.

PROTECTION AGAINST RUST AND CORROSION

Liquid Intelligents 254 contains a complete rust and corrosion inhibiting system that not only protects steel and alloy wheels, but in a wound, Liquid Intelligents 254's proprietary process will also protect steel belts. Outside contaminants are prevented from leaching back into the wound, which would cause the steel belts to rust and the ply to separate. Without Liquid Intelligents 254's protection, the contaminants would quickly destroy costly casings.

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WILL NOT CREATE A BALANCE PROBLEM

Treating a tyre with the recommended amount of Liquid Intelligents 254 does not allow for an excessive amount of product to accumulate in the tread area, therefore the tyre is not subject to a mass of substance that would create an imbalance. Liquid Intelligents 254 cannot create an imbalance due to the unique ability to evenly coat the entire inner surfaces of the tyre/rim assembly (1mm coating) subjected to normal centrifugal force.

If the suspension is worn beyond specified tolerance, or a tyre/rim assembly is not balanced and/or trued, the abnormal centrifugal force generated will have enough gravitational force to pull Liquid Intelligents 254 off the vertical surfaces and collect in the problem area thereby increasing the "existing" imbalance problem. If the problem is severe enough the driver will feel a vibration. The vibration indicates that a problem pre-existed in the tyre assembly or suspension prior to installing Liquid Intelligents 254. Liquid Intelligents 254 International recommends that the balance and trueness of a tyre assembly and/or the worthiness of the front suspension be verified, prior to the installation of Liquid Intelligents 254.

MATHEMATICAL CALCULATION FOR DETERMINING LIQUID INTELLIGENTS 254'S TYRE VOLUME REQUIREMENTS

APPLICATION AMOUNTS

The amount of Liquid Intelligents 254 required per tyre size, has been mathematically calculated by taking measurements of the inner surface of specific tyre/rim assemblies. In order to arrive at the precise amount of Liquid Intelligents 254 necessary for each tyre size, the tyre's total inner surface is divided by the Liquid Intelligents 254 coverage factor, thus providing the minimum installation amount.

AVERAGE HIGHWAY USE

This application amount is for high-speed vehicles and equipment that is to be used on the highway.

- (a)** First measure the distance in cm across the tyre from bead to bead, reach over from the outside of the tyre to the inside bead and put the tape on it and measure the distance from the inside bead

- (b.)** Then measure the circumference in cm of the tyre tread. Over the top to the outside bead.

- (c.)** Next multiply these 2 measurements together and the result is the surface area of the tyre in square cm.

- (d.)** Now multiply this result by the film thickness required for this application, 0.1cm and result of this calculation will be in mls so divide by 1,000 to get the litres required of Fluid Seal to treat your tyres.

INTERMEDIATE ON-ROAD/OFF-ROAD USE

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This application amount is for equipment that is used on and off highways or that is in an area of increased exposure to punctures. Examples: construction vehicles, survey crew vehicles, utility vehicles, golf carts, mowers, etc.

- (a) First measure the distance in cm across the tyre from bead to bead, reach over from the outside of the tyre to the inside bead and put the tape on it and measure the distance from the inside bead
- (b.) Then measure the circumference in cm of the tyre tread. Over the top to the outside bead.
- (c.) Next multiply these 2 measurements together and the result is the surface area of the tyre in square cm.
- (d.) Now multiply this result by the film thickness required for this application, 0.2 cm and your result of this calculation will be in cc so divide by 1,000 to get the litres required of Fluid Seal to treat your tyres.

EXTREME OFF ROAD USE

This application amount is for equipment that is constantly off roads and is required to complete a job. Downtime is a major expense when a flat tyre occurs. The additional amount will sufficiently increase the reserve to accommodate for many additional punctures.

A second consideration is the additional life Liquid Intelligent 254 provides in preserving the casings for additional retreads and the retardation of dry rot. Example: graders, tractors, backhoes, trucks, dump trucks, mining equipment, etc.

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- (a) First measure the distance in cm across the tyre from bead to bead, reach over from the outside of the tyre to the inside bead and put the tape on it and measure the distance from the inside bead
- (b.) Then measure the circumference in cm of the tyre tread. Over the top to the outside bead.
- (c.) Next multiply these 2 measurements together and the result is the surface area of the tyre in square cm.
- (d.) Now multiply this result by the film thickness required for your application, 0.3 cm and your result of this calculation will be in cc so divide by 1,000 to get the litres required of Fluid Seal to treat your tyres.

SPECIAL SITUATIONS

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Prior to installing Liquid Intelligents 254, it is recommended to inspect the tyre's outer surface for signs of aging, stress and existing damage. If the tyres have sufficient tread and are considered good, then proceed with the installation. Within any fleet there are used tyres and retreaded casings that are already prematurely aged with early signs of dry rot. These casings will absorb more Liquid Intelligents 254 than a normal casing and the application amount will need to be increased. A general rule of thumb is to add an additional 10% of the required dosage to the questionable casings.

LIQUID INTELLIGENTS 254'S MOST FREQUENTLY ASKED QUESTIONS.

Q - Can Liquid Intelligents 254 hide or mask a dangerous puncture?

A - No! Absolutely not... It is virtually impossible for Liquid Intelligents 254 to hide or mask a dangerous wound. 20+ years of usage have proven that Liquid Intelligents 254 will not seal a tyre that has received a wound that would weaken the tyre's inner structure to a point that could be dangerous.

If a tyre receives a dangerous wound, Liquid Intelligents 254 allows air to bleed, providing additional time for the driver to bring the vehicle to a controlled stop. This safety factor can reduce potential blowouts from becoming a dangerous situation.

Q - Can Liquid Intelligents 254 be used in all types of tyres?

A - Generally Yes! For the past 20 years, Liquid Intelligents 254 has been utilized in virtually every conceivable pneumatic tyre.

Q - Will Liquid Intelligents 254 attack or corrode steel belts?

A - No! Liquid Intelligents 254's advanced proprietary repair/clot and curing attributes have proven that the specialized rust inhibiting system protects steel belts against rust and corrosion.

The unique ability to cure within a wound also protects the steel belts from outside contaminants.

Q - Can tyres treated with Liquid Intelligents 254 be retreaded?

A - Yes! Liquid Intelligents 254 is compatible with all retreading methods.

Testing has proven that Liquid Intelligents 254 will retard aging in tyres. Liquid Intelligents 254 treated tyres exhibit greater rubber resilience when compared to untreated tyres.

Q - Can Liquid Intelligents 254 be used in tyres with tubes?

A - Yes! Liquid Intelligents 254 will seal wounds in both tube and tubeless tyres as long as there is rubber recovery and it is not a dangerous wound.

Q - Is Liquid Intelligents 254 strictly for repairing a damaged tyre?

A - No!

Liquid Intelligents 254 is a preventative maintenance tyre additive and was designed to be utilized prior to a tyre receiving damage from puncturing objects and/or interior damage caused from operating tyres under inflated.

After installing Liquid Intelligents 254, the vehicle is driven a minimum of 3 to 5 km, however it

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is not imperative to drive the vehicle immediately. For Liquid Intelligents 254 to perform its preliminary functions, the tyre and Liquid Intelligents 254 must go through an initial conditioning period, at which time Liquid Intelligents 254 will have completely coated and conditioned the inner surfaces of the tyre/rim.

When a puncture occurs, the Liquid Intelligents 254 coating encapsulates the puncturing object. When the puncturing object is removed or ejected, Liquid Intelligents 254 is drawn into the wound by the capillary action of the escaping air; the wound closes up (rubber recovery) thereby trapping the Liquid Intelligents 254 repair/clot. The repair/clot cures and becomes non water-soluble to protect the inner structure from outside contaminants.

The Liquid Intelligents 254 repair/clot is only as strong as the tyre and can not hide or mask a dangerous wound.

Q - Can Liquid Intelligents 254 maintain correct air pressure?

A - Yes!

Testing has proven that Liquid Intelligents 254 has the ability to eliminate porosity and air migration.

Although Liquid Intelligents 254 will maintain correct air pressure, we recommend that visual inspection be performed on a per trip basis and complete tyre examinations and air pressure inspections be performed at scheduled PM's.

Q - Does Liquid Intelligents 254 extend tyre life and retard dry rot?

A - Yes!

Tests have proven that Liquid Intelligents 254 will retard aging within the inner structure of a tyre.

Testing has also proven that Liquid Intelligents 254 will reduce heat and eliminate migrating air, which is directly related to increased tyre, and casing life.

Q - Will Liquid Intelligents 254 seal sidewall punctures?

A - Yes & No!

However, It is important to realize that Liquid Intelligents 254 cannot hide or mask a dangerous wound.

Radial tyre sidewalls are much thinner in construction than the rest of the tyre. Even though there is some rubber recovery, if the wound has not weakened the structure of the tyre, it will seal.

If the wound is dangerous, Liquid Intelligents 254 is designed to bleed and the tyre will deflate in a slow controlled manner. Regardless of the tyre, the sidewall is the most vulnerable area. Liquid Intelligents does not guarantee positive secure repair/clots on sidewall punctures.

Q - Will Liquid Intelligents 254 eventually dry or ball up in the tire?

A - No!

Liquid Intelligents 254's Acrylic Polymer Emulsion protects against separation and formulation breakdown. Tyres exposed to normal operational temperatures and high speed will not cause Liquid Intelligents 254 to break down.

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Q - Will Liquid Intelligents 254 last as long as the tyre?

A - Yes!

Liquid Intelligents warrants Liquid Intelligents 254 Tire Life Extender/sealer for the legal tread life of the tyre.

Liquid Intelligents 254's Acrylic Polymer Emulsion enables the formulation to withstand heat, sheer and stress resulting from centrifugal force emanating from a rotating tyre/rim.

Q - Do you need to stir or mix Liquid Intelligents 254 prior to installing?

A - No!

Liquid Intelligents 254 is thixotropic and does not separate.

Q - Does Liquid Intelligents 254 have a shelf life warranty?

A - Yes!

Liquid Intelligents certifies that when stored in factory sealed original containers, out of direct sunlight and in a temperature range of -7 °C to +35 °C Liquid Intelligents 254 may be stored for at least 4 years.

Q - Does Liquid Intelligents 254 cause out of balance problems?

A - No!

Liquid Intelligents 254 cannot create an out of balance situation. If the tyre and rim are properly balanced prior to installing Liquid Intelligents 254 and neither are out of round, then there will not be a change in performance.

Liquid Intelligents 254 does not balance tyres or rims. If a problem exists then Liquid Intelligents 254 may aggravate the situation, which acts as a safety warning alerting the driver that there is definitely a tyre, rim and/or suspension problem.

Q - Is Liquid Intelligents 254 compatible with tyre components?

A - Yes!

Liquid Intelligents 254's formulation is fully compatible with all components in any tyre.

Q - Will Liquid Intelligents 254 rust or corrode rims?

A - No!

Liquid Intelligents 254's rust and corrosion inhibiting system continuously works to prevent rust or corrosion.

Liquid Intelligents 254 cannot eliminate existing rust or corrosion, but will neutralize it and prevent any additional damage.

Q - Can tyres treated with Liquid Intelligents 254 be repaired?

A - Yes!

Liquid Intelligents 254 does not contain any adhesive or chemicals that would alter the tires integrity.

Liquid Intelligents 254 is totally water-soluble in its liquid state and even when cured it can easily be removed from the interior of any tyre.

All major repairs are performed by simply wiping the wound area with a damp cloth, then wipe dry and repair.

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Q - Does Liquid Intelligents 254 create a mess when a tyre is dismantled?**A - No!**

Liquid Intelligents 254 is a viscous gel-like liquid that does not flow like water. Approximately 80% of the minimum required application amount coats the entire inner surface of the tyre/rim. The remaining 20% is considered the reserve, which does settle to the bottom only when a tyre is stationary.

When dismantling a tyre containing Liquid Intelligents 254, there is not enough product collected at the bottom that would allow it to splash out.

If the mechanic breaks the bead prior to releasing all the air from the tyre, the Liquid Intelligents 254 around the bead/rim attempts to prevent the air from escaping, resulting in a small amount of Liquid Intelligents 254 blowing out, as the bead breaks away from the rim. To prevent this from happening, release all of the air pressure prior to breaking the bead.

Q - Will Liquid Intelligents 254 repair large wounds?**A - Yes & No!**

Liquid Intelligents 254 seals wounds measured by the size of the puncturing object, not the size of the wound.

Regardless of how small a puncture may be, if the puncturing object has extensively damaged the tyre's integrity, the wound will continue to bleed air and Liquid Intelligents 254.

Q - Is Liquid Intelligents 254 a permanent repair?**A - Yes & No!**

The Tyre Industry claims that "permanent repair" refers to a tyre repair that is permanently attached to the wound area by means of adhesives and/or vulcanisation.

Although Liquid Intelligents 254's repair/clots are positive secure repairs that remain airtight for the life of the tyre, Liquid Intelligents 254 is not a glue or adhesive.

The formulation is designed to bleed air and Liquid Intelligents 254 if a tyre has received major structural damage, therefore for safety reasons the permanency of an Liquid Intelligents 254 repair/clot is contingent on the integrity of the tyre.

Q - Does Liquid Intelligents 254 protect steel belts from contamination?**A - Yes!**

Independent testing proves that Liquid Intelligents 254 will not cause corrosion.

One of Liquid Intelligents 254's proprietary attributes is the ability to cure in a wound and become non water-soluble. This permanently prevents corrosion on steel belts as it protects against outside moisture and contaminants from leaching into the wound as the vehicle is driven.

Q - Is a Liquid Intelligents 254 repair as good as a patch?**A - Yes!**

In most cases, Liquid Intelligents 254 is better than a patch; the reason being is that Liquid Intelligents 254 is a preventative.

A patch is a repair that is performed after the tyre has gone flat and in most cases has been

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driven flat for some distance. Driving on a flat radial tyre even for a short distance will create extensive internal damage that is irreversible and normally goes unnoticed by the repairperson.

Preventative Maintenance is always better and safer than an after the fact repair.

Q - Does Liquid Intelligents 254 freeze in cold climates?

A - No!

Liquid Intelligents 254's operating temperatures are from -34 °C to +190 °C.

LiquidSeal will not freeze when operating a vehicle in cold climates. In extreme cold weather below -34 °C, Liquid Intelligents 254 will slightly thicken, but as the tyre heats up from normal road friction, Liquid Intelligents 254 quickly returns to its normal viscosity.

Q - Is it difficult to install Liquid Intelligents 254?

A - No!

To install Liquid Intelligents 254, into tyres of an average passenger car or light truck requires less than 5 minutes per tyre, while a large truck averages 7 minutes per tyre.

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