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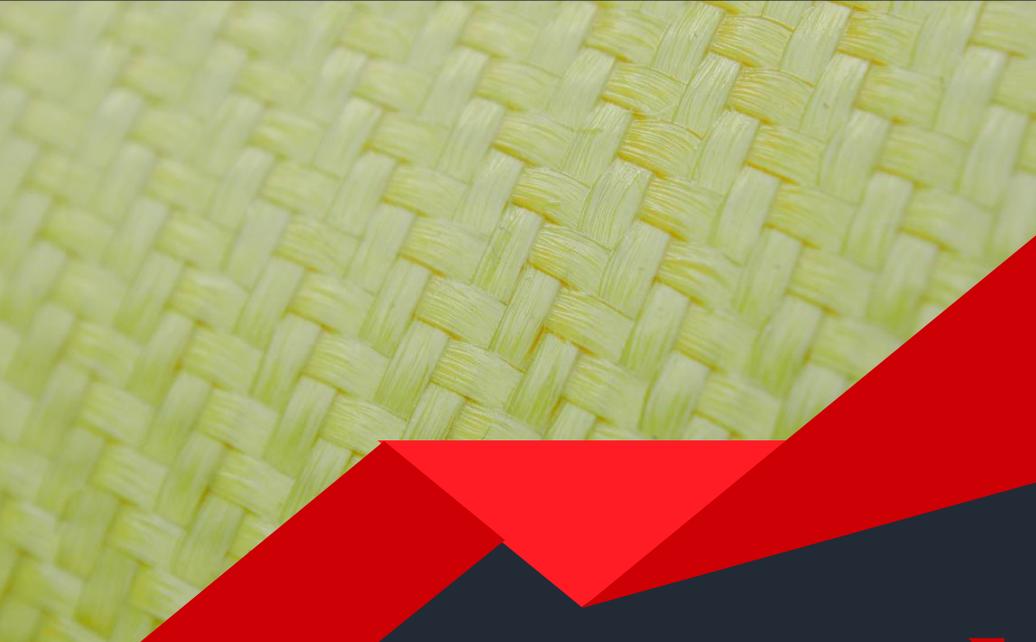
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**LIQUID ARMOUR**  
**[WWW.LIQUIDARMOUR.COM](http://WWW.LIQUIDARMOUR.COM)**



# LIQUID ARMOUR

## BLAST PROOF WALLPAPER

While complete protection from bomb blasts and explosions are not possible, there are initiatives we can take to reduce the extent or even the likelihood of damage. In more obvious situations, Blast-resistant wallpapers have long been used and an increase in blast-type attacks or events has created a need for higher levels of protection in a wider range of applications.

Blast resistant wallpaper by Liquid Amour is protecting lives worldwide against terrorist attacks or accidental explosions. Available in a stick-on format, these Blast Resistant wallpapers can be applied to any wall or panel to significantly improve its resistance to shockwaves and shrapnel.

Liquid Armour-based Blast resistant wallpapers provide the ability to quickly increase a structure's resistance to an explosion in case of imminent threat. Compared to typical armoring which could take a few days to weeks to be applied, these wallpapers can be applied in a significantly shorter amount of time which can prove to be a serious advantage.

Liquid Armour blast-resistant wallpaper is designed to protect occupants from flying debris, especially glass shards – the leading cause of injury in a blast. Based on patented Energy Absorbing Technology enables all components of blast-resistant wallpaper to absorb the energy released from the explosion.

### Blast Mitigation Attributes:

- Deflects energy of blasts while keeping structures intact.
- High flexibility eliminates or reduces shrapnel and other collateral damage.
- Adheres to a variety of surfaces including concrete, steel, aluminum, fiberglass, and more.
- Adjustable thickness depending on the level of protection required.
- Conforms to any shape.

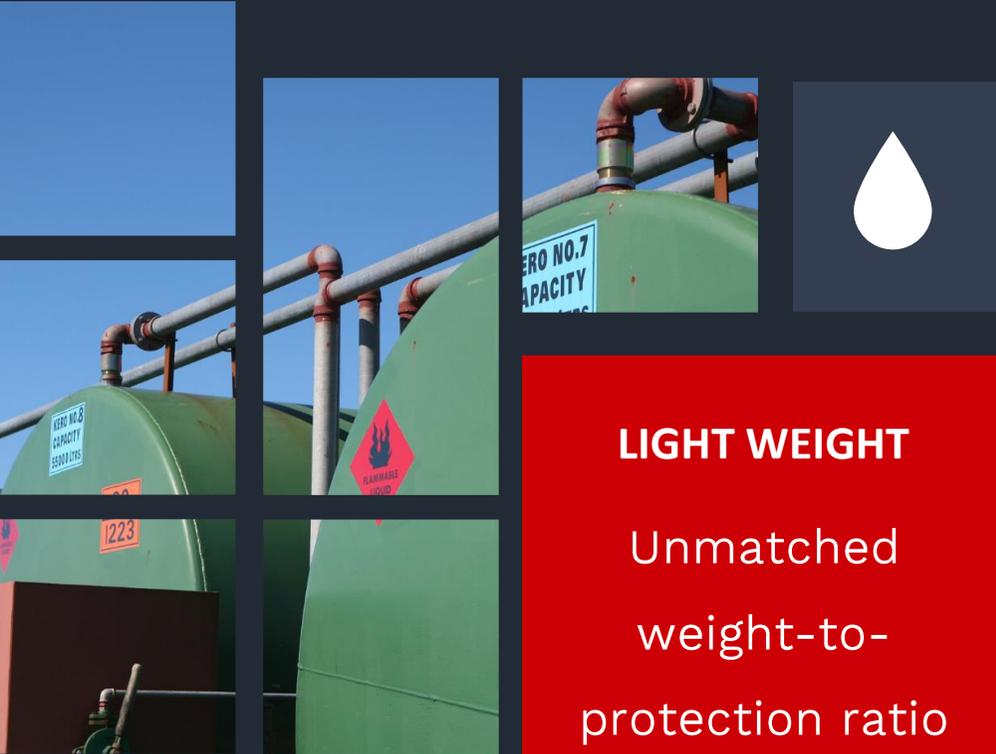


# LIQUID ARMOUR

## FUEL TANKS FOR VEHICLES

Our mission is to contribute to the creation of a more secure environment by reducing structural damage, injury, and even death caused by targeted attacks using explosives. The Liquid Armour coatings are used for both buildings and vehicles. Looking at the anatomy of an explosion, a major cause of destruction is the massive pressure that blows apart a structure. By forming a strong Liquid Armour® “skin” that holds the structure together and reduces fragmentation, the blast is less likely to cause severe damage.

Fuel tank interiors, in particular, require adequate corrosion protection. Without proper lining, the contents of these tanks tend to corrode the steel walls. Additionally, proper tank lining preserves the quality of the oil or fuel against rust or contamination.



**LIGHT WEIGHT**  
Unmatched  
weight-to-  
protection ratio



Linings also are crucial because they increase tank life and help avoid highly cost-intensive replacements. It is important to have a protective coating reapplied at the first sign of corrosion for best results.

In case military and police force protection, Liquid Armour® has the best solution for Tactical wheeled vehicle protection, CARC compatible systems, Enhanced vehicle armor for trucks and heavy artillery, Fuel trucks, and storage tank protection, Marine and safe boat surfaces.

The Liquid Armour® coatings are 100% solids (zero VOC) spray-applied coatings and linings that are environmentally responsible.

Liquid Armour professional fuel tank coating application includes:

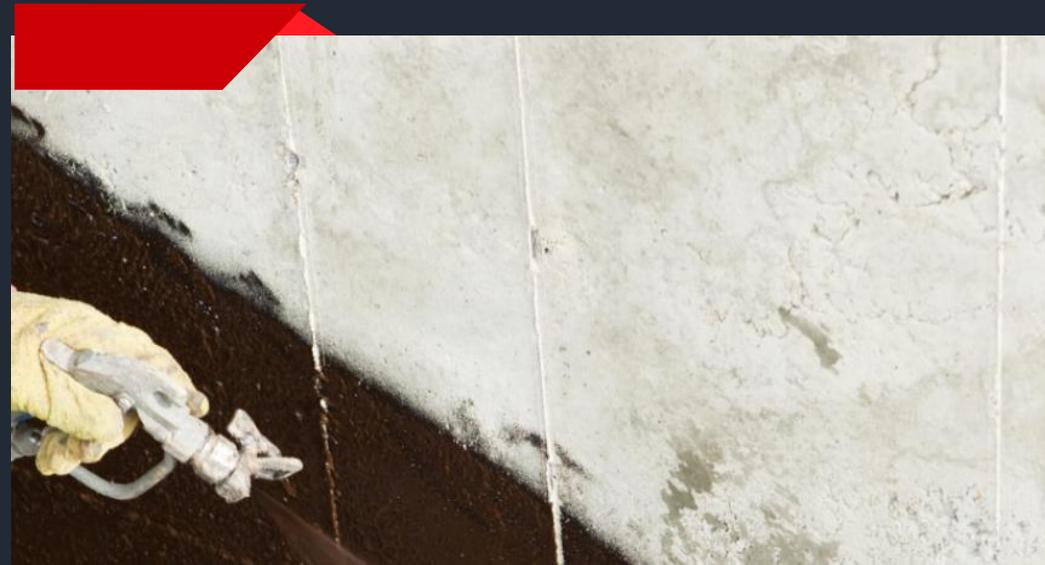
- Identifying conditions and selection of appropriate coatings
- Control of moisture and temperature during application and curing
- Manage safety hazards involved in coating and maintain work safety practices.
- Ensure all requirements are being met.
- Confirm that no thin or uncoated areas are left for a service life of 10-to-20 years.

# LIQUID ARMOUR

## BLAST MITIGATION

Liquid Armour offers superior energy absorption and fragment containment. Working with end-users and industry experts, our Liquid Armour® uses a super nano advanced blast mitigating polymer. This patented and proprietary polymer, providing military assets and structures a flexible and dependable debris penetration solution that can be applied to almost any existing surface.

Our Liquid Armour® system forms a seamless, super-resistant barrier, ensuring the assets and structures are able to absorb the blast energy. The absorption and elongation of Liquid Armour® extend the blast duration, significantly reducing the peak shock wave.



Liquid Armour® is available in a Spray form. This allows you to vary the thickness to meet the full range of threat and weight criteria.

## ADVANTAGES

- Superior weight to protection
- Simple spray-on application, eliminating complex training requirements.
- Photo stabilized long-lasting formula means Liquid Armour® will not break down, delaminate or lose strength after long exposure to the sun.
- Maintenance-free
- Can add color to match the application surface making it difficult to distinguish where it has been applied.



**SUSTAINABLE**  
All our nano  
polymers are  
100% VOC  
(Volatile Organic



# LIQUID ARMOUR

## SPALL LINERS

Spall liners are made from rubberized aramid, high-performance polyethylene, or fiberglass. It is designed to stop projectiles and small fragments and to reduce the damage inside a vehicle if hit by an overmatched threat.

Liquid Armour offers bespoke solutions to suit your exact requirements taking into account the weight, threat level, and cost. Our spall liners are easy to install resulting in a smooth finish. It adds minimum weight to a platform with very little to no effect on maneuverability.

Spall liners for military vehicles protect soldiers from flying fragments (spall) of metal inside the crew compartment. They are made of energy-absorbing materials and can be fabricated into panels or blankets. Spall liners attach to the inside of a vehicle's structural armor and line the interior surfaces of tanks, tactical vehicles, and personnel carriers. By reducing the risk of serious injury to military personnel, these custom-fabricated components serve as a type of interior armor.



When a mine or improvised explosive device (IED) is detonated, the impact may not be powerful enough to pierce the armor of a military vehicle. Yet the shock wave is still strong enough to pass through the structural armor and cause damage. As the stress limits of the vehicle's metal armour are exceeded, fracture occurs. In case of such a fracture in the metal, spall is propelled towards the vehicle's occupants at high velocities.

There are two main types of spall linings. Spall panels are rubber-coated composites that use a resin-based system. They are stiff, durable, and suitable for vehicles and locations where visibility is high and physical support is low. Spall blankets are more flexible and consist of layers of fibers that are encapsulated by a polymer for protection against moisture, wear dust, and UV light. Both types of spall liners can incorporate part features such as holes for fasteners.

The way that protective products are installed and removed is important too as it may be an additional weak spot. Metal fasteners or adhesive spraying-based systems can be used. Liquid Armour can also fabricate spall liners such as spall blankets that attach with hook-and-loop (Velcro) fasteners that provide high tensile strength and high shear strength. For more information about Spall Liners from Liquid Armour please contact us



LIQUID ARMOUR™ IS A HIGH-STRENGTH AND LIGHTWEIGHT ALTERNATIVE TO TRADITIONAL BUILDING AND VEHICLE ARMOURING



# LIQUID ARMOUR

## STANAG 4569 LEVEL 3

Protecting against modern threats has led to a runaway scenario. More heavy, costly, and complex armours are used to defeat the threat, increasing weight and diminishing performance of the platform. Our STANAG 4569 Level 3 Certified Liquid Armour® solution reduces weight without reducing protection. The Super nano polymer has a density nearly identical to water. Size and weight are reduced, resulting in improved platform performance.

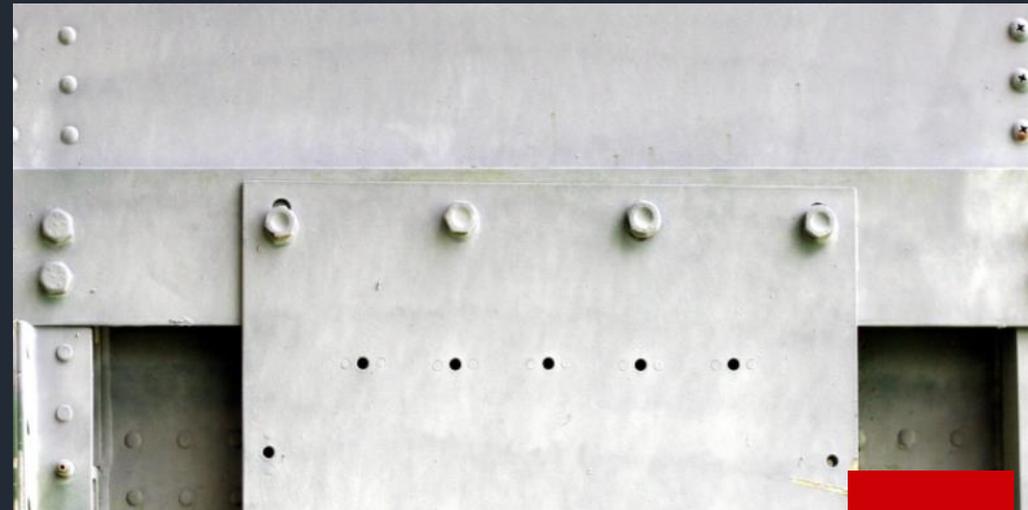
Our innovative Liquid Armour® can be designed to your unique dimensions and shapes, enhancing protection, reducing gaps where protection could break down from traditional add-on armours. Talk to our experts today about your specific needs. Liquid Armour connects people and knowledge to create innovations that sustainably improve protection, saves weight, and at a price that is competitive with monolithic steel armour.

Liquid Armour® is focused on the Defense, Safety, and Security sectors, creating innovations that save lives, weight, and cost.



LIQUID  
ARMOUR™ IS A  
HIGH-STRENGTH  
AND  
LIGHTWEIGHT  
ALTERNATIVE TO  
TRADITIONAL  
BUILDING AND  
VEHICLE

ARMOURING



# LIQUID ARMOUR

## PIPELINES COATING

Liquid Armour is an ideal coating for pipelines in a multitude of environments, including underground, above ground, underwater, onshore & river crossings, and so on. This seamless pipeline protection is appropriate for a broad spectrum of pipelines, including oil & gas, petrochemicals, potable water, wastewater, sludge & slurry, and much more.

Liquid Armour coating can be applied internally in pipelines to prevent corrosion and protect against erosion. The external applications of Liquid Armour include corrosion protection, erosion protection, wear protection, blast protection and sabkha soils protection.



### HIGH PERFORMANCE

Superb tensile  
strength, tear  
strength and  
flexibility

Liquid Armour can be sprayed or cast to any desired thickness and can become tack-free within seconds of application with modifiable cure times available. This formulation is suitable for spraying on to any substrate, including concrete, steel, and metals. This high-performance protective coating delivers superior corrosion protection and resistance against adverse chemicals such as gasoline, diesel, crude oil, condensates, brine water, hydroxides, solvents, peroxides, salts, etc. This sophisticated coating can be applied and cured at low temperatures while retaining its performance characteristics.

The application of liquid armour is not limited to preliminary coatings, but also to remediation applications using robotic technology for corroded/eroded pipelines from the inside. This remedial treatment renders the pipelines to become highly robust, versatile, and resilient, and the fast liquid armour coating procedure reduces downtime of pipeline systems and surrounding operations.



# LIQUID ARMOUR

## OIL & GAS INDUSTRIES

Transmission and storage facilities for oil & gas, are regarded as critical instruments of social infrastructure. Hundreds of thousands of kilometres of new crude oil and natural gas pipelines and storage tanks are either being built, planned or being studied globally. Protecting such valuable assets against corrosion presents a technical challenge since the investment in constructing and maintaining such storage facilities are quite high.

Liquid Armour® creates a bond that makes the substrates virtually indestructible being tear resistant, corrosion resistant and leak-proof.

Long-term performance of Liquid Armour® coating is evident in maintaining consistent adhesion, mechanical protection under high soil loading, cathodic protection, tolerance to soil stress and low moisture, and eliminating gas permeation at various operating temperatures. Other benefits of Liquid Armour coatings include improved operating life of any surface, reduced maintenance cost and increased efficiency.

Liquid armour has significant applications in storage tanks, ditch breakers and containment areas, frac ponds and impoundments, oil field rig matting and flooring, drilling rigs and pumps, etc.

The high-performance coating delivers superior corrosion protection and resistance against adverse chemistries such as gasoline, diesel, crude oil, condensates, brine water, hydroxides, solvents, peroxides, salts etc.

When applied to storage tanks and trucks, Liquid Armour® offers significant benefits by protecting them from corrosion, abrasion, and other physical impacts. It forms a solid monolithic protective barrier around the pipeline, protecting it from heavy loads and stresses, corrosion, and abrasion.

**DURABLE**

ADD YEARS TO LIFE  
OF ANY SURFACE

**PROFITABLE**

REDUCE  
MAINTENANCE COST

**COMPETENT**

INCREASE  
PRODUCTIVITY



**INDUSTRIES**

# LIQUID ARMOUR

## MARINE COATING

Liquid Armour technology is an advanced and complete solution for marine protection against corrosion, impact and water intrusion.

In deep waters or while docked, ships require tough & durable coatings that also protect cargo and crew from damage or injury. Liquid Armour® is used in commercial and military ships in both salt and freshwater applications.

Liquid armour is an excellent product for applications in the fixed and floating marine structures such as offshore oil rigs, recreational boats and yachts, passenger ships, freighters, tankers, container ships, fishing boats and ferries, inland waterway ships, barges and tow boats, and many more.

## MARINE



We understand the significance of the damage that corrosion causes and provide a comprehensive array of marine protective coatings and offshore corrosion protection solutions that are environmentally friendly, non-leaching and non-toxic.

Liquid armour is an ideal solution that can be used on vessels for leak repair and mitigation. It shields facilities and equipment from wear and tear and also can act as an abrasive impediment for barges and other working surfaces. It works as an impermeable barrier against rust and corrosion, and offers an excellent balance between performance, protection, and cost.

“Advanced  
and Complete  
Marine  
Solutions”



# LIQUID ARMOUR

## BUND LINING SYSTEMS

Bund linings, waterproofing systems, and protective coating systems based on Liquid Armour offer enhanced application properties and cure rates, as well as reduced environmental and handling constraints, when compared to other existing coating products.

Furthermore, there are significant advantages due its superior mechanical and chemical stability, specifically in some of the more challenging waterproofing and bund / containment area lining applications. The rapid reaction curing and hardening, combined with the low susceptibility to moisture, makes Liquid Armour an extremely valuable protective coating.



Liquid Armour is typically sprayed, or machine applied, making it cost effective for large surface areas in certain banded and secondary containment areas such as tank farms and manufacturing / distribution and handling facilities.

Liquid Armour coated containment area lining solutions are widely used in areas where protective linings and coatings are required. Sprayed Liquid Armour Lining and Coating Systems dry quickly, can be coated in thick layers in one application, and is touch dried, allowing complete systems to be installed quickly, providing a speedy return to service.

" Faster,  
Better, Cost-  
effective."