

# PROTECTING AND PRESERVING VALUE

Highly effective corrosion protection  
for construction and agricultural  
vehicles and machines





# CORROSION: THE UNDER-ESTIMATED PROBLEM

Modern construction and agricultural machines are small or large miracles of technology. Innovative technologies make their users’ work easier. However, many vehicle parts still consist of steel and sooner or later, steel is prone to rusting. Corrosion endangers human safety, in addition to that of vehicles and machines.

Your machines are true heavy-duty labourers, outdoors at work in every kind of weather. Rain, humidity, sand, dust, and dirt infiltrate the tiniest crevices in your vehicles and cause damage which may not be immediately evident. Condensation in cavities, mechanical abrasion, and inadequate basic rust protection are the most common causes of rust and pose a real risk to your investment.

With professional corrosion protection, you protect your valuable work equipment, which ensures that your operation runs smoothly. With the reliable sealing of cavities and underbodies that reaches the last tiny corner, the service life of your vehicles and machines is increased – as is the safety of your employees.

## Arguments in favour of corrosion protection:

- **Approx. 125 rainy days** (higher depending on the region)
- **Extreme climatic differences** (cold, humidity, heat, aridity)
- **Formation of condensation in cavities**
- **Extreme use of vehicles and machines**
- **Lack of basic protection**
- **Preservation of investment value resulting from longer service life**

How corrosion develops – a comparison

ENVIRONMENT	STEEL Average µm/year	COPPER Average µm/year	ZINC Average µm/year	ALUMINIUM max. 10 years µm/year
Rural	10	0.4	0.8	70
Seacoast	10	0,8	2	100
Urban	10	1.5	5	80



# THE DINITROL CORROSION PRO- TECTION SYSTEM

Sooner or later, you will have to deal with rust. Rust corrodes the value of your vehicle and is a risk to the safety of humans and machines. That is why we developed a system that optimally protects all the important areas of vehicles.

Our DINITROL 2-layer corrosion protection completely seals all cavities and the vehicle underbody. We turn danger zones into protection zones.

We continuously develop our products further. Exactly harmonised with your requirements. With a strong focus on environmental compatibility. Our Green Tec products show that. Irrespective of your project's size, we always offer our high-quality products for all applications in the container size that best meets your needs. Solving your problem drives us forwards. To achieve that aim, there is only one solution: quality!

## Our corrosion protection delivers:

- **Temperature resistance in extreme heat and cold**
- **Resistance to water, humidity, and environmental influences**
- **Abrasion resistance**
- **Resistance to ageing under conditions of widely varying temperatures and moisture levels**



# DINITROL DOUBLE-LAYER CORROSION PROTECTION

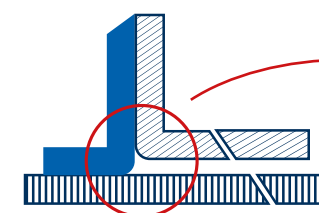
With our products, you will really reach every angle and even the smallest cavities. To ensure that all relevant parts are optimally protected, cavity sealing is followed by a second step in which all seams and folds are effectively penetrated to treat even the smallest gaps accordingly. Water no longer has the opportunity to accumulate. Our products have outstanding surface tension that enables edges and overlaps to be protected. Rust typically spreads from a source on an edge and creeps across the entire area from there.

Our 2-layer corrosion protection reliably prevents rust creep. After sealing the cavities – the exposure time is around one hour –, the entire vehicle underbody is pre-treated with the previously used DINITROL cavity protection product. However, it is essential to ensure that the underbody is only lightly sprayed, otherwise the second layer may not adhere properly. Next, the underbody is covered with a thick layer of underbody protection. This quality solution protects everything your customers hold dear.

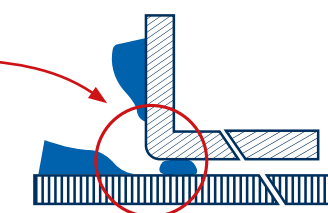
## PENETRATION

### Effect with not enough material

Shortly after application



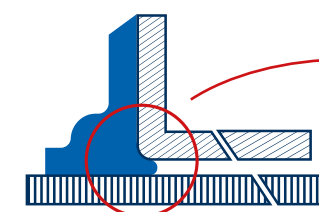
**Result** = Protective layer breaks



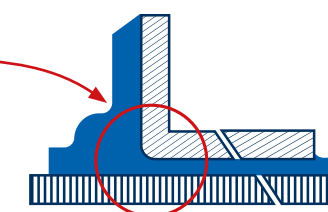
If there is not enough material, the protective layer is broken by penetration.

### Effect with right quantity of material

Shortly after application



**Result** = Strong protective layer

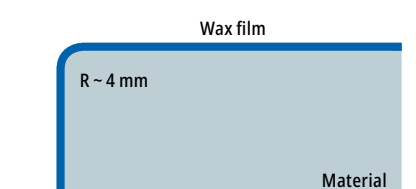
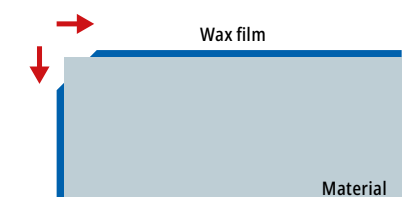


The right quantity of material ensures effective penetration and a strong, resilient protective layer.

## EDGE PROTECTION – EDGE THINNING

DINITROL products have outstanding surface tension that protects edges and overlaps. For optimal edge protection, it is necessary to apply **DINITROL** in a **double-layered system**.

**One thin layer, followed by a thick layer, protects edges and prevents edge thinning.**



Rust usually spreads from the edges, eventually consuming entire surfaces. If the edge is not adequately protected, even a protective layer on the surface won't help, as the rust spreads underneath it.



## Agricultural vehicles and machines

# RELIABLE **PROTECTION** WHEN YOU NEED IT

Tractors, combines, tedders, balers, chaff cutters, etc. – they all have to deliver maximum performance. Permanently and reliably. Your agricultural machines are outdoors at work in every kind of weather. Sooner or later, rust and other signs of wear will lead to problems. That is why reliable surface protection, underbody protection, and cavity sealing are essential. We have the perfect solution for you.

Our product range protects your vehicles and machines – reliably and sustainably. We know that for you, machine downtime is tied to lost time and enormous expense. That is why we provide support for you in the face of all challenges around the themes of maintenance, service, and care. With our wide range of products, you are always on the right side. Act preventively to avoid downtime in the first place. We continuously develop our products further for your requirements.

Our aim is to make your agricultural machinery safer and prolong its service life – even in the case of longer periods in depot and during transport. The theme of value protection is at the top of our agenda. This includes the development of highly effective products that are environmentally friendly at the same time: DINITROL Green Tec. Rust remover, universal protection, underbody or stone impact protection – we have the right size and right container for all your applications. And DINITROL Green Tec products are also user-friendly.





## Construction vehicles and machines

# HARD WORK REQUIRES STRONG **PROTECTION**

Construction schedules are often tight. Everything must be done at the proper time. All the gears must mesh perfectly. A machine malfunction is a catastrophe. Downtime on the construction site is every building contractor's nightmare. Downtime, expensive repairs, and possibly contractual penalties. We would like you to sleep well every night.

Rust, wear, and other damage to excavators, cranes, etc. can become serious problems. But they don't have to. We provide you with support in the face of all challenges around the themes of maintenance, service, and care. Act preventively to avoid downtime in the first place. We help you with an innovative range of products for high-quality corrosion protection. Protect your value and the people who work on your construction sites. We continuously develop our products further for your applications.

Our aim is to make your construction machines safer and prolong their service life – even in the case of longer periods in depot and during transport. The theme of value protection is at the top of our agenda. This includes the development of highly effective products that are environmentally friendly at the same time: DINITROL Green Tec. Rust remover, universal protection, surface protection, underbody or gravel impact protection – we have the right container size for all your requirements. And DINITROL Green Tec products are even user-friendly.





#### CAVITY PROTECTION

##### DINITROL ML

High Performance cavity protection with outstanding penetration

- ✓ Outstanding penetration
- ✓ Stops advanced corrosion
- ✓ Water-displacing
- ✓ Oily, flexible film
- ✓ Wet-on-wet with Bitumen UBS

##### DINITROL 1000

Long-lasting corrosion inhibitor for cavity sealing

- ✓ Outstanding penetration
- ✓ Highly water-repellent
- ✓ Outstanding low temperature properties
- ✓ Washable
- ✓ Lubricating

#### CAVITY PROTECTION

##### DINITROL 977

Environmentally friendly, water-based corrosion inhibitor

- ✓ Water-based, environmentally friendly
- ✓ Very low VOC
- ✓ Excellent penetration
- ✓ Odourless
- ✓ Film virtually non-sticky



#### UNDERBODY PROTECTION

##### DINITROL 4941

Robust underbody protection for highly corrosive environments

- ✓ OEM references
- ✓ Resistant universal film
- ✓ Self-repairing
- ✓ Easy to use
- ✓ Excellent abrasion resistance
- ✓ Component protection

##### DINITROL 4942

Universally applicable underbody protection product

- ✓ Chemically stable
- ✓ Flexible at low temperatures
- ✓ Resistant to stone impact
- ✓ Durable

#### STONECHIP PROTECTION

##### DINITROL 958

Environmentally friendly, water-based stone and gravel impact protection

- ✓ Water-based
- ✓ OEM references
- ✓ Quickly drying, flexible black film
- ✓ Environmentally friendly – solvent-free
- ✓ Can be coated



##### DINITROL 445

High-quality stone impact protection, can be coated

- ✓ Dries quickly
- ✓ Plastic- and resin-based
- ✓ Can be coated
- ✓ Road salt-resistant

#### SURFACE PROTECTION

##### DINITROL 4010

Resistant corrosion inhibitor for surface and engine protection

- ✓ High mechanical resistance
- ✓ High temperature resistance
- ✓ Strong bond
- ✓ Long-term protection

##### DINITROL 965 HP

Environmentally friendly, water-based surface and engine protection

- ✓ Non-adhesive
- ✓ Dries quickly
- ✓ Easy to apply
- ✓ Temperature-resistant
- ✓ Clean application



#### RUST REMOVER + RUST RELEASING

##### DINITROL ZERO RUST 991 GEL

Perfect, sustainable rust removal

- ✓ Ready to use, no thinning required
- ✓ Removes even heavy rust
- ✓ Non-toxic, biodegradable
- ✓ Water-based, does not contain acids or caustic solutions



##### MS-60 X RUST

Quick acting, high performance rust releasing agent

- ✓ Penetrating and lubricating
- ✓ Displaces moisture
- ✓ Silicone- and mineral oil-free
- ✓ Is not detrimental to paint adhesion
- ✓ Economical in use
- ✓ Easy to apply with the perfectly adapted spray pipe



For further products, consult:  
[www.dinitrol.com/produktkatalog](http://www.dinitrol.com/produktkatalog)





# PROTECTING YOUR VALUES – THAT IS OUR AIM

But we have always been active in the protection of our planet as well. That is why the continuous further development of our products with regard to environmental compatibility is one of our top priorities. We put all our effort into using our concentrated innovative power for even better products that generate less emissions. This is particularly reflected in our Green Tec products. Maximum effect with maximum environmental compatibility is our aim. These two products are an impressive example of Green Tec's success.



## DINITROL 977

**Environmentally friendly, water-based corrosion inhibitor**

DINITROL 977 is a semi-transparent, water-based corrosion inhibitor for the protection of cavities in vehicles, lorries, buses, etc. that require corrosion protection. It can also be used as universal protection for machines and machine components. The product is water-repellent and features outstanding penetration. After drying, a virtually non-adhesive wax coating remains with excellent temperature resistance up to approx. +120 °C. When DINITROL 977 is dry and heated by the sun or the engine, it does not emit the conventional odour of cavity wax.



## DINITROL 965 HIGH PERFORMANCE

**Environmentally friendly, water-based engine protection**

DINITROL 965 High Performance is a transparent corrosion inhibitor for applications on vehicles and in industry. The product was specially developed for the protection of surfaces that are exposed to high temperatures. DINITROL 965 High Performance creates a water-repellent, heat-resistant, and paint-like film. The product delivers long-term corrosion protection for iron, zinc, and aluminium. It is very easy to apply and ensures efficient, clean applications.





# OUR EQUIPMENT MAKES **YOUR WORK** **EASIER**



**DINITROL  
65° WAND**

85 mm, flat



**DINITROL  
HOOK WAND 80°**

8 x 400 mm,  
100 mesh round



**DINITROL  
HOOK WAND 65°**

8 x 400 mm,  
200 mesh



**DINITROL  
FLEXIBLE  
WAND 360°**

8 x 2000 mm, radial  
2-hole, 200 mesh,  
pressed no



**DINITROL  
EXTENSION HOSE**

1000 mm



**DINITROL  
PRESSURE  
SPRAY GUN**

UBS/HR GSI



**DINITROL  
SPRAYER**

HS 1-P



**DINITROL  
AIRLESS PUMP**

1:26, for 60 L and  
208 L barrels



**DINITROL  
SPRAYER**

UBS 1-P



**DINITROL  
AIRLESS PUMP**

For 20 L canister

Professional corrosion protection relies on professional tools. Our many decades of experience in applications has shown us which equipment yields the best results. We have contributed to the development to some of these tools. As a result, we have been able to ensure that their handling is perfectly harmonised to the required work. Of course you can also procure these special work materials from us.



A large, yellow, heavy-duty mining machine, likely a continuous miner or shearer, is shown in operation. It has a large, circular cutting head with multiple cutting tools. The machine is positioned in a dark, underground mining environment, with a large pile of dark material (likely coal or ore) in the foreground. The background shows the complex structure of the mine, including cables and other machinery.

# YOUR STRONG PARTNER

More than 70 years ago, we set standards with the first corrosion inhibitor. Since that time, we have worked tirelessly on high product quality in order to continue to surpass the level we already reached. Today DINOL GmbH, a subsidiary of the WÜRTH Group, are one of the globally leading system providers of corrosion protection. We are at home in the workshops of the world. In the construction and agricultural industries, our solutions also ensure the protection of investments in vehicles and machines. Experience, flexibility, and the aspiration to do it a bit better than before are our qualities. With us, you always have a strong partner at your side.

**To help you protect what is important to you.**





**THE QUALITY SOLUTION**

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