111 Jahre
anno 1913

HODT®

Korrosionsschutz

STOPPT ROST SOFORT!

FLUID FILM®

PERMA FILM®

MULTI FILM®

MASTO


STOPS
RUST!

TABLE OF CONTENTS

HODT INFO BROCHURE

COMPANY HISTORY

ALFRED HODT A FAMILY ENTERPRISE WITH TRADITION

When Alfred Hodt founded his namesake company in 1913, he laid the foundation for a success story that continues to this day. Despite having to start over again due to two world wars, the company is now in its fourth generation and rightfully ranks among the most important companies in the corrosion protection industry. This success is largely attributed to the grandson of the company's founder, Jürgen Wulff-Hodt, who in 1963 decided to take over the family business from his grandfather and rebuild it with skill and dedication. Initially involved in the import and export of fish oils, as well as animal and vegetable oils and fats, he also took over the sole distribution of corrosion protection products, FLUID FILM, from the Eureka Chemical Company, San Francisco, for Europe in 1975.

Nowadays, the fourth generation is co-owner of both companies. At the helm of Korrosionsschutz GmbH for many years has been the eldest son, Detlef Wulff-Hodt, who, in keeping with tradition, wholeheartedly and successfully dedicates himself to the family business. Products from Hodt are synonymous with high quality and cost-effectiveness. FLUID FILM has long been the most well-known and proven lanolin-based corrosion protection coating. The environmentally friendly and solvent-free FLUID FILM products, which have become well-known in shipping and offshore industries, have been tested on millions of square meters of ballast water tank surfaces worldwide.

But FLUID FILM products are also being increasingly embraced by users in many other fields. They are favored by enthusiasts in industries ranging from aviation and even space travel to fans of vintage cars, water sports enthusiasts, and members of the German Society for Chronometry. FLUID FILM is effectively used for the storage and transportation of metal parts and even in the wind power industry.

In 2000, we introduced another corrosion protection product to the market under the name PERMA FILM. This high-quality and thick-layered single-component paint meets the latest requirements for repairing and renewing defective initial coatings in the ballast water area of ships, offering an economical and efficient alternative to conventional paint systems.

HODT Korrosionsschutz founder, Alfred Hodt

Our latest product, HODT MULTI FILM, impresses with its versatility. This solvent-free curing rust protection serves valuable purposes as both a primer and a topcoat. As a transparent coating, it even excels at preserving original patina.
HODT MULTI FILM utilizes an aqueous "hybrid" system that cures oxidatively and ensures high elasticity of the coating.
With these properties, it proves its worth in various industries including mechanical engineering, automotive, and construction. HODT MULTI FILM is on its way to conquer additional markets.

HODT PRODUCTS

LEADERSHIP IN THE SCIENCE OF CORROSION CONTROL

When the U.S. Navy needed to conquer the costs and delays of batling rust and corrosion in the ballast tanks of its thousands of combat and support vessels in World War II, an innovative West Coast chemist formulated a powerful weapon based on an unlikely ingredient: lanolin (woolwax).

The savings were immediate. The costs of chipping, sealing and painting were greatly reduced. The new film penetrated corrosion and rust quickly. Application was simple. Protective action was long lasting and economical. The weapon was **FLUID FILM**, produced in a variety of easy-use forms by EUREKA CHEMICAL COMPANY since 1943 and incorporated in 1953, the company continues as a family-owned business managed by descendants of the founding chemist.

From its first seagoing use in the 1940s, **FLUID FILM** has been proved in some of the most severe conditions: industrial, agricultural, raw-terrain construction – even on the space shuttle. Modified over time to adapt to environmental and application considerations, it`s nontoxic, non-hazardous, contains no solvents and is environmentally friendlier.

FLUID FILM continues to serve as the most effective corrosion control for industry, agriculture, manufacturing and transportation.

REFERENCES

DB · CNH · LM WIND POWER

ENSCO · WSV.de · Delta

NSB · Marine · KOMATSU

EADS · SIEMENS · DOOSAN

ENERCON ENERGIE FÜR DIE WELT · JOHN DEERE · üstra

BOMBARDIER AEROSPACE · CATERPILLAR · NEW HOLLAND AGRICULTURE

FIAT INDUSTRIAL · ALSTOM · WIRTGEN GROUP · VÖGELE

HODT PRODUCTS

HIGH QUALITY AND RELIABLE CORROSION PROTECTION

FLUID FILM

THE PERMANENTLY ACTIVE CORROSION CONTROL

FLUID FILM on basis of wool grease forms a soft coating for long term protection. Containing no solvents it surpasses conventional products being environmentally friendlier.
Due to the penetrating and creeping properties it does not only prevent corrosion, but also stops existing rust by penetration to the base metal.

> DOES NOT ONLY PREVENT CORROSION BUT ALSO STOPS EXISTING RUST.

FLUID FILM is available in different grades of viscosity allowing numerous applications in all types of ships, auto industry, agriculture and aviation and others.
FLUID FILM has been proven for a long time its properties as highly qualified corrosion control product.

www.fluidfilm.de

HODT MULTI FILM

PRIMER & TOPCOAT – WITHOUT SOLVENTS

Constantly striving for innovation and meeting the evolving demands of our customers in terms of rust protection, we introduce our newcomer. Addressing the recurring question of a paintable rust protection, we have now found the answer: HODT MULTI FILM! The latest addition to HODT's rust protection line is a true multitasker. Not only can it be used as rust protection, but it can also be painted over with most common paints, making it an indispensable tool in any workshop. Additionally, HODT MULTI FILM excels in other areas such as industry or mechanical engineering. Whether on steel, galvanized steel, aluminum, or existing coatings, HODT MULTI FILM is suitable for many substrates.

> AS PRIMER CAN BE COVERED WITH MOST OF THE CONVENTIONAL COATING

The transparent rust protection is even used to preserve and protect original
patina.

www.multi-film.de

PERMA FILM

ABRASION RESISTANT SURFACE TOLERANT TOPCOAT

PERMA FILM, in conjunction with FLUID FILM, provides an optimal protection as a surface-tolerant coating for the evolving demands of repairs and inadequate initial coatings. Since the year 2000, it has been successfully employed as an economical and efficient corrosion protection agent in the ballast water area of ships as well as underbody protection for vehicles.

> *SUITABLE FOR REPAIRS AND INITIAL COATING.*

www.permafilm.de

HODT PRODUCTS

WIDE RANGE OF APPLICATIONS

WINTER EQUIPMENT

Equipment utilized in the course of winter is vulnerable to the natural and fabricated elements that surround the season. Inclement weather and road salts are highly destructive to metals and electrical connections. Vehicles traveling through salted roads face a constant barrage of highly corrosive chemicals used for road stabilization.

AGRICULTURE

In agriculture, water, fertilizers, and pesticides are commonly used, posing a highly corrosive challenge to vehicles, equipment, and materials, which therefore require constant corrosion protection. Metals lacking adequate protection have a shorter lifespan and are more prone to defects. Especially in agriculture, where long-term and costly investments are necessary, corrosion protection is a key element for maintenance and preservation.

AUTOMOBILE INDUSTRY

Automobiles offer a wide range of attackable surfaces for corrosion caused by weather conditions, humidity or stone chips. Especially where it is not visible – in cavities and on the underbody – corrosion breaks through. Body-cavity sealing and a treatment of underbody protection with high quality corrosion protection products are therefore indispensable, if you like to enjoy your vehicle for many years.

Hodt Products provide maintenance as well as conservation of value of new and classic cars.

WIND POWER PLANTS

Wind Power Plants present a particular challenge for the corrosion prevention. The exposure to corrosion in an environment mostly consisting of salt, humidity and contamination is extremely high. Without a suitable corrosion preventive it can lead for example on screw connections to uncontrolled destruction of the threads and thus endanger the operational safety. FLUID FILM products have been used with great success for a long time on locking screws, tooth systems, gear fits and other metal parts.

INDUSTRY

In industry or the manufacturing sector **FLUID FILM** is used under extreme conditions, in which the production plants and equipment are exposed to corrosive effects such as pulp mills and salt, fertilizer and battery industrial plants.

FLUID FILM protects spare-parts, raw material and finished goods during storage and transport.

SHIPPING

Large shipping lines and even the US navy have relied on the professional rust protection offered by **FLUID FILM** for decades. In contrast to asphalt and wax, **FLUID FILM** also works wherever rust has already caused severe damage. Whether maintenance of machine parts and moving equipment, wire ropes or in ballast water tank as repair coating, the solvent free products based on woolwax are applicable in many areas.

Corrosion protection under extremely harsh conditions!

HODT PRODUCTS

SPECIAL COATINGS

FLUID FILM products can look back on a long history of reliable corrosion protection under the most severe corrosive conditions.
70 years ago, the Eureka Chemical Company developed a solution against metal wear through laboratory research and field trials.
This was the birth of FLUID FILM as a corrosion protection agent with excellent penetrating, lubricating, and sliding properties, which has since been used by the United States Navy, the shipping industry, industrial sectors, and offshore applications.
FLUID FILM, based on wool grease and solvent-free, forms an oxygen-blocking layer that does not harden and forms an active protective film in the long term without drying out.
FLUID FILM penetrates rust, displaces residual moisture, and thereby prevents further corrosion.
FLUID FILM also has exceptionally good lubricating properties,especially for hard-to-reach devices that also need to be protected against corrosion simultaneously. These properties make it an effective, long-lasting, and therefore economical product.

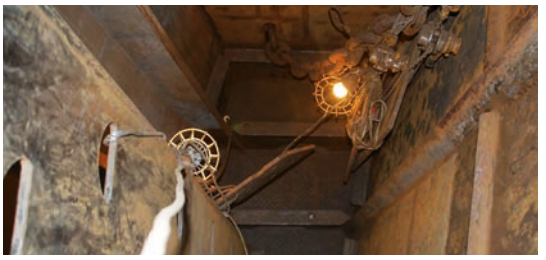
FIELDS OF APPLICATION

- Repair of ballast water tanks
- Dock inner coatings
- Pontoons
- Cellguides
- Hatch covers
- Wire Ropes
- Bilges
- Rudder inner coatings
- Void space
- Anchor chains / Anchor lockers
- Open gears
- Storage &
- Transport protection
- Twistlocks
  Cargo hold
- ventilation pipes
  Deck &
  machine maintenance

PRACTICAL ADVANTAGES

REQUIRES A MINIMUM OF SURFACE PREPARATION.
PENETRATES EXISTING RUST, DISPLACES WATER, AND FORMS A DURABLE FILM.
ADHERES TO BOTH WET AND DRY SURFACES.
DOES NOT DRY OUT OR EVAPORATE, REMAINING ACTIVE INDEFINITELY.
DUE TO ITS PHYSICAL PROPERTIES, THE PROTECTIVE FILM IS SELF-HEALING.

Cellguides



Chainlocker

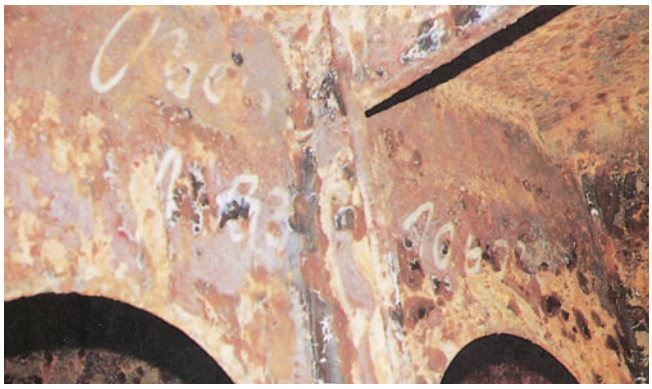
Dock

Cable

Rudder

HODT PRODUCTS

SPECIAL COATINGS IN BALLAST WATER TANKS



FLUID FILM

LIQUID A

BY FLOATATION METHOD FOR BALLAST WATER TANKS, STEERING GEARS & INACCESSIBLE AREAS, STORAGE- & TRANSPORT PROTECTION

VISCOSITY
PENETRABILITY
TERM OF PROTECTION

PRODUCT TYPE

- **solvent free coating**
- **on lanolin basis**
- **physiologically non hazardous**

COLOR

Transparent

HANDLING

With standard compressed air systems without heating the material, with brush/roller or by floatation

CHARACTERISTICS

- Can be applied by floatation or any other conventional handling method
- Forms with water or air humidity a gel
- Requires minimum surface preparation and forms a protective film
- Penetrates rust, displaces water and forms a resistant corrosion protection
- Good adhesion on wet or dry surfaces
- No evaporation, resinifying or drying out of the protective film
- Is not washed off by rain or seawater, but can easily be removed, when required
- Quick operational readiness after application
- As a primer in system with PERMA FILM
- As a base coat for heavily rusted wire ropes and cables
- In case of injuries of the coating, FLUID FILM Liquid A shows a limited self-healing effect.
- FLUID FILM Liquid A corresponds to the United States Military Specification – MIL-C-16173

PACKAGING

1 Liter	**Tin**
5 Liter	**Canister**
20 Liter	**Pail**
208 Liter	**Drum**

TECHNICAL DATA

Spec. Weight (ASTM D 1298) 0,905 – 0,915
Viskosity(Ford Cup No. 4) 30 bis 45 sec. at 21 °C
Flash Point (ASTM-D92 COC) > 157°C (450 K)
Spec. Conductivity < 10^{-9} mho/cm at 1 MHz
Solids Content 100 %

FIELDS OF APPLICATION

Single layer anticorrosive coating – mainly for floating of ballast water tanks in need of repair on ships, floating docks, offshore units, body inside protection of cars etc., where a compromise between effort and protective effect has to be made. Furthermore suitable for screw connections, seams, overlapping areas, stockage in winter, winter service, cavity sealing, storage and transport of metal parts.
In case of conventional handling by means of spraying devices, brushes or rolls for anticorrosive measures on dry or humid, blank or rusty surfaces, which have to be protected against saltwater and against any atmospheric conditions.

FLUID FILM

AS-R

UNIVERSAL SPRAY FOR WORKSHOPS
PRESERVATION, LUBRICANT AGENT
PENETRATING OIL AND RUST DISSOLVER

VISCOSITY
PENETRABILITY
TERM OF PROTECTION

PRODUCT TYPE

- Corrosion preventative with lubricant- and rust moving properties
- Based on lanolin
- Physiologically non-hazardous

COLOR

clear, shiny

HANDLING

Spraycan with small spray applicator and 60 cm cavity probe

CHARACTERISTICS

- Penetrates rapidly, nevertheless adheres well.
- Does not evaporate nor resinify as it is usual by most of penetrating oils
- Temperature-stable
- Requires a minimum surface preparation and forms a protection film
- Penetrates rust, displaces water and forms a resistant corrosion protection
- Good adhesion on wet and dry surfaces
  protection film does not dry out
- Excellent resistance against rain and salt water,
  but can be easily removed if required
- Quick operational readiness after application in case of damnification of the coating
- FLUID FILM AS-R has limited self healing effects
- FLUID FILM AS-R spraycan (400 ml) meets the regulations MIL-C-23050, paragraph 3.6.

PACKAGING

400ml	**Spraycan**

FIELDS OF APPLICATION

Indispensable for plants, work shops, garages and do-it-yourselfers:

- Protects motorcycles and bicycles from rust
- Provides protection for vehicle seams, door edges, cavities, engine compartments, and all other corrosion-prone parts when stored during the winter.
- Even a thin film application protects chains from wear and corrosion
- Prevents corrosion on all metal surfaces, such as tools and machinery
- Provides optimal rust protection for boat engines and other corrosion-prone areas on the boat.
- As a lubricant and preservative, it is particularly suitable for all moving parts such as pulleys, chain transmissions of steering systems, joints of self-steering systems, etc.
- For gun maintenance and for sports, recreational, and household equipment
- In the restoration of metal objects, when special emphasis is placed on preserving the original patina
- As corrosion protection for steel parts and other metal parts during transport, storage, and processing in manufacturing
- As an underbody protection pre-treatment
  Plasticizes and activates existing bitumen protective layers already present on car chassis floors

FLUID FILM
NAS / NAS BLACK

SEA & TROPICAL SHIPPING
STORAGE
PROTECTION OF MACHINES IN OPERATION
AND CAVITIES

VISCOSITY
PENETRABILITY
TERM OF PROTECTION

PRODUCT TYPE

- Solvent free, thixotropic corrosion preventative
- Based on lanolin
- Physiologically non-hazardous

COLOR

Clear, shiny,
black shiny protective film

HANDLING

With standard pressure spray gun,
after heating of the material to approx. 25°C.
With brush/roller or airless spray application
without heating.

CHARACTERISTICS

- Suitable for lubricant and penetrating oil
- Requires less surface preparation and forms a protection film
- Can be applied as rust remover as well as rust protection
- Penetrates rust, displaces water and forms an extremely resistant protection against corrosion caused by salt
- Good adhesion on wet or dry surfaces
- No evaporation, resinifying or drying of the protection coat
- Excellent resistance against rain and salt water, but can be easily removed if required
- Can get into contact with water immediately after application
- In case of damnification of the coating FLUID FILM has limited self healing effects
- FLUID FILM NAS meets the regulations of the United States Militay Specification- MIL-C-16173

PACKAGING

1 Liter	**Tin**
5 Liter	**Canister**
20 Liter	**Pail**
208 Liter	**Drum**

TECHNICAL DATA

Specific gravity (ASTM D 1298) 0,92 kg/dm³
Viscosity (Ford Cup No. 4) 20-26 sec. at 20°C
Flashpoint (ASTM-D92 COC) 207°C
Solids content 100 %

FIELDS OF APPLICATION

Single layer anticorrosive coating. Mainly destined for protection of cavities, metal surfaces for in-plant temporary storage and for preservation during sea and road transport, winter service and pretreatment for underbody protection. Also applicable as lubricant and penetrant.

Conventional treatment by spraying, brush or roller for corrosion preventative measures on dry or wet, bare or rusty surfaces to be protected against salt water and climatic influences.

FLUID FILM

LIQUID AR

OPEN STORAGE AND TRANSPORTATION
CORROSION PROTECTION WITH LUBRICATION
BALLAST WATER TANK
REPAIR CONSERVATION

VISCOSITY
PENETRABILITY
TERM OF PROTECTION

PRODUCT TYPE

» Solvent free, thixotropic corrosion preventative
» Based on lanolin
» Physiologically non-hazardous

COLOR

Transparent

HANDLING

With standard pressure spray gun, after heating of the material to approx. 45°C. With brush/roller or airless spray application without heating.

PACKAGING

1 Liter	**Tin**
5 Liter	**Canister**
20 Liter	**Pail**
208 Liter	**Drum**

TECHNICAL DATA

Spec. Weight (ASTM D 1298) 0,910 – 0,920			
Viscosity (HBF) 21°C -	**U/min**	**Stoke**	**Poise**
Spindle no. 5	**5**	**1969**	**1792**
Flash point (ASTM-D92 COC) > 157°C			
Solids content 100 %			
Recommended film thickness 500 µm (Germ. Lloyd)			

CHARACTERISTICS

» Simultaneous lubrication and corrosion protection
» Economical in application and straightforward in processing. Between 200 - 800 µm can be applied in one operation (airless method)
» Capable of crawling and penetrating even at low temperatures
» Requires minimal surface treatment and forms a protective film
» Penetrates rust, displaces moisture, and forms a durable corrosion protection
» Good adhesion to wet or dry surfaces
» No evaporation, resinification, or drying out of the protective film
» Not washed away by rain or seawater, but can be easily removed if necessary
» Quick readiness for use after application

» FLUID FILM exhibits a limited self-healing effect in
» case of damage to the coating

» Complies with the guidelines of the United States Military Specification – MIL-C-16173

FIELDS OF APPLICATION

Single-layer corrosion protection coating for: shipbuilding, docks, offshore units, sheet piles, cavities, and similar objects. In ballast water tanks, void spaces, cofferdams, and similarly stressed areas where a pure substrate pretreatment cannot be provided for cost reasons. As corrosion protection for steel parts and other metal parts during transport, storage, and processing in manufacturing facilities.
Proven for years in the protection of hollow components on onshore and offshore wind turbines; also excellently suited for cavity preservation in the automotive sector due to its longer protection duration.

FLUID FILM

GEL B

NEW STEEL PRESERVATION AND REPAIR OF
INNER COATINGS OF DOCKS &
BALLAST WATER TANKS
PRESERVATION OF SCREWS AND THREADS

VISCOSITY
PENETRABILITY
TERM OF PROTECTION

PRODUCT TYPE

Solvent-free, gel-like coating material based on lanolin, physiologically harmless.

COLOR

White (Gel BW), transparent (Gel BN)

HANDLING

Brush/roller or by airless spraying

PACKAGING

1 Liter	**Tin**
20 Liter	**Pail**
208 Liter	**Drum**

TECHNICAL DATA

Spec. Weight (ASTM D 1298)	**0,924-0,934**
Flash Point (ASTM-D92)	**207°C (405°F)**
Spec. Conductivity > 10 -9 mho/cm at 1 MHz	
Dripping Point (ASTM-D566)	**96°C (205° F)**
Corrosion Resistance salt spray test	**inch / year**
a.ASTM-D117 (5000 hrs.)	**0,00016**
b.MIL-C-23050	**0,00020 (admissible up to 0,005)**
ballast water tank - simulator MIL-C-23050	**0,00050 (admissible up to 0,005)**

CHARACTERISTICS

- Solvent-free, therefore much less environmental impact during application
- Eminently penetrates thick layers of rust – blasting works are dispensable
- Highest resistance against hydrous media
- Economical in application and uncomplicated in handling in one step a cover strength up to 1.000 µm can be applied (by airless method)
- Cost-saving handling when spraying with grouting lances, mostly superseding the construction of a scaffold
- 1-component product with excellent adhesion also on intact old paintings
- Renewal coatings can be made with FLUID FILM products immediately after removal of any loose contaminations
- No need to observe the dew point during the handling, as long as no condensate can be discovered
- Temperature-stable from –45°C (248 K) up to approx. 70°C (343 K)
- In case of injuries of the coating, FLUID FILM shows a limited self-healing effect
- FLUID FILM Gel B corresponds to the directives MIL-Spec C-23050

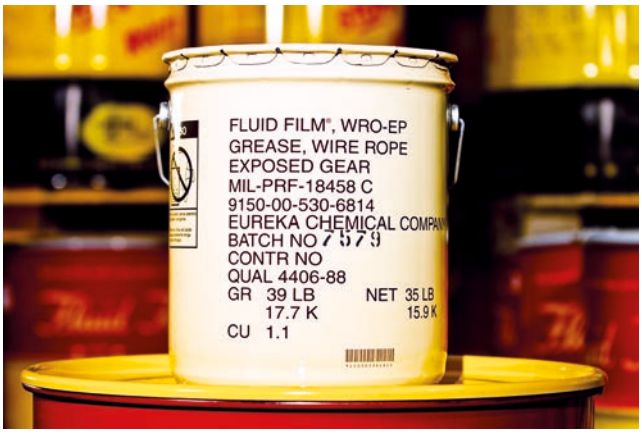
CHARACTERISTICS

Single-layer – long-term protective coating for: ships, docks, offshore - facilities, bulk heads and comparable objects. In ballast water tanks, void cells, coffer dams and similar strained areas, where due to cost reasons,
a pure ground pretreatment for repaint cannot be provided.
Also eminently suited for the conservation of screws and threads under extreme pressure; furthermore for underbody protection, winter service, sealing of folds, transport and storage of metal parts, new steel preservation.

FLUID FILM

WRO-EP

WIRE ROPE GREASE,
SCREW - & THREAD PROTECTION
UNDER EXTREME PRESSURE



VISCOSITY
PENETRABILITY
TERM OF PROTECTION

PRODUCT TYPE

Solvent-free corrosion protection grease with a very high lanolin content combined with highly effective extreme pressure additives, physiologically harmless.

COLOR

Black-grey

HANDLING

MASTO wire rope lubricator or brush/roller/ sheep wool glove
Cartridge gun

PACKAGING

310 ml	**Cartridge**
17,6 Liter	**Pail**
208 Liter	**Drum**

TECHNICAL DATA

Density at 20°C g/cm3	**0,91-0,92**
Flash point °C (ASTM D 92)	**256**
Viskosity*	**320**
Drop point**	**115 °C**

*The consistency of the product has been measured acc. to DIN 51804 at a temperature of 25 °C as worked penetration. Acc. to DIN 51818 WRO-EP belongs to the NLGI-class 5 and 6 for its consistency.

** The drop point describes the temperature, where the first drop of the melting product drips from the test nipple under testing conditions acc.To DIN 81801.

CHARACTERISTICS

- Solvent-free, therefore less environmental impact during the handling
- Very high resistance and durability against saltwater and chemicals
- Temperature-stable from – 45 °C up to 110°C
- High mechanical strength, superior adhesiveness under extreme climatical conditions
- Excellent wear protection respectively EP compounds
- Economical in application and uncomplicated in handling.
- In one step a coating of up to 3.000 µm can be applied.
- 1-component product with 98 % solids content
  In combination with FLUID FILM Liquid A a higher penetration into the soul of the wire rope incl. surface protection can be archieved.
- In case of injuries of the coating FLUID FILM WRO-EP shows a limited self-healing effect
- Corresponds to the directives MIL-PRF-18458 C.

FIELDS OF APPLICATION

Hiqh quality wire rope preservation (applicable in aggressive maritime- and tropical climate). Corrosion protection for cables, bolts and screw connections.

PERMA FILM SYSTEM

SURFACE TOLERANT COATING FOR
BALLAST WATER TANKS,
AUTOMOBILE UNDERBODIES,
INDUSTRIAL FACILITIES AND WINTER ROAD SERVICE

VISCOSITY
TERMS OF PROTECTION

PRODUCT TYPE

Calcium sulfonate compound dissolved in resin

COLOR

Aluminium, black, transparent

APPLICATION

With a commercially available pressure pot spray gun, brush/roller, or using the airless method.

PACKAGING

1 Liter	**Tin**
3 Liter	**Pail**
20 Liter	**Pail**

TECHNICAL DATA

Specific gravity/20 C	**ca.0,98 g/cm³**
Flash point	**> 40°C**
Consumption	**1 liter is sufficient for 4m². (Wet layer thickness of 250 µm, dry layer thickness 150 µm)**
Corrosion resistance: corrosion tests in artificial atmosphere - salt spray test according to DIN EN ISO 9227-NSS 2006 > 450 h	
Resistance to heat	**max. +70°C, non-yellowing up to 50° C (transparent)**

CHARACTERISTICS

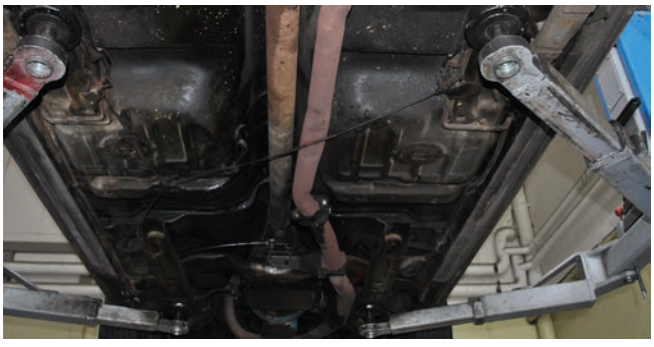
- Corrosion preventive and topcoat in one
- Can be applied directly in system with FLUID FILM Liquid A / NAS or AS-R (Spray) on existing deep-seated rust. The excellent penetration properties of the system warrant a thoroughly wetting and encapsulation of rust and/or already existing coatings
- Long-term corrosion protection
- Good wettability on deep porous surfaces as well as on joints and folds (seam sealing) in system with pre-primer FLUID FILM as thinner
- High thickness layers can be easily reached in one coat when applied by airless spraying
- High tolerance against relative humidity during application (possible near the dew point), and salt water resistance
- High solids content and mild solvent in the formulation
- Low material loss
- Due to the compatibility with deep penetrating FLUID FILM, PERMA FILM system can be applied with a considerably lower standard of surface preparation as required by usual colour coatings
- Type Approval GL
  Application possible at low temperatures (O°C)

APPLICATION FIELDS

- Ballast water tanks
- Industrial facilities
- Wheel house
- Winter road service & equipment
- Underbodies

UNDERBODY COATING ON MOTOR VEHICLES

SURFACE-TOLERANT COATING FOR VEHICLE UNDERBODIES ON EXISTING COATINGS, RUST, AND BARE METALS

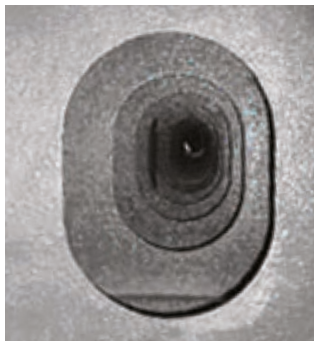


BALLAST WATER TANK PRESERVATION

SURFACE-TOLERANT COATING FOR BALLAST WATER TANKS ON EXISTING COATINGS, RUST, BARE METALS, AND FLUID FILM COATINGS

After high pressure cleaning with min. 350 bar

Pre-treatment with FLUID FILM Liquid A with 25 µm (wft.)



First coat - PERMA FILM AL with 150 µm (wft.)

Second coat - PERMA FILM Buff with 250 µm (wft.)

MASTO

WIRE ROPE LUBRICATOR CORROSION PREVENTION FOR ROPES AND CABLES.

PRODUCT INFORMATION

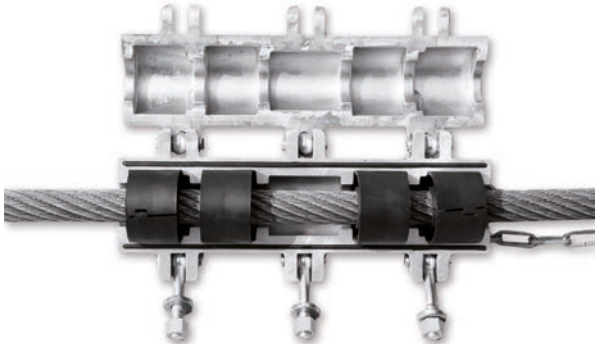
The high static and dynamic demands of ropes and cables
require a high-quality corrosion protection, which penetrates into the cores of the wire rope. The application of wire rope
grease by means of brush, rag, gloves etc. is not only costly, neither it is guaranteed that the protection coat is penetrating deeply into the gussets and cores.

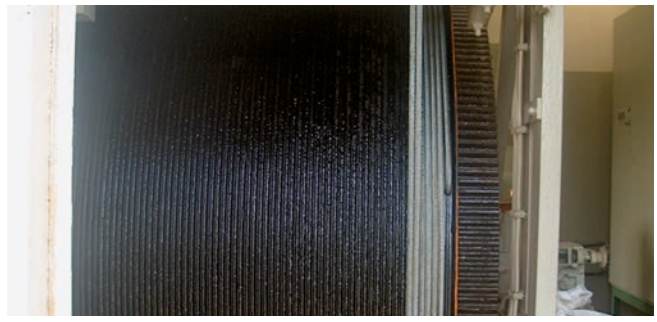
A well-applicated lubrication should not only reduce the internal friction (between the individual wires and wire layers) of the
ropes, but should also protect against corrosion caused by
penetration of water and pollutants.
A correct and for the type of use adapted wire rope application is the most important requirement for an undisturbed use of rope action and a long lasting lifetime of the wire rope.

A renewal of the lubrication and the corrosion protection should be done by injection of a suitable anticorrosive and lubricating wire rope grease which is applied in a pressure chamber at a
pressure of approx. 25-30 bar between the wires and wire layers.

We recommend for this purpose the application of the wire rope grease FLUID FILM WRO-EP, which is used, among other things, by the US NAVY in many areas. FLUID FILM WRO-EP contains no solvents, which also makes it compatible with conventional wire rope greases. The operation can be continued immediately after the lubrication of the ropes with FLUID FILM WRO-EP.

The MASTO WIRE ROPE LUBRICATOR, when lubricating and
preserving, serves at the same time as a stripping device for poorly adhering parts of the old coating and impurities.





REFERENCES

Mobil Oil Uk, Bridon, Texaco, Esso, Diamond Offshore Drilliing, UK Navy, Liebherr, Geoteam, EON, Reederei Nord, Bergesen, Acomarit, V-ships, Bergwerk Prosper-Haniel, Deutsche Bundesbahn

FIELDS OF APPLICATION

- Offshore
- Shipping
- Industry
- Mining
- Armed forces
- Power stations
- Construction
- ICE-Waschanlagen
- Ski lifts

TECHNICAL DATA

Model	MWL 4 / 35	MWL 36 / 74
Wirerope diameter ∅	4–35 mm	36–74 mm
Ø size of seals* (1 Set)	16 sizes at 2 mm intervals	15 sizes at 3 mm intervals
Weigth	3,6 kg	5,9 kg
Wear (1 set/rope length)	after approx. 3000 m	after approx. 3000 m
Lubrication speed m / min	50–60	50–60

1 set for MWL 4/35 = 4 seals; 1 set for MWL 36/74 = 2 seals

The complete MASTO device contains, in addition to the hinged sleeve with 4 seals (4–35 mm) or 2 seals (36–74 mm), an airless pump with follow plate for 20-liter buckets, material hose, and fixing chains.

HODT MULTI FILM

PRIMER & TOPCOAT
– WITHOUT SOLVENTS

VISCOSITY
TERM OF PROTECTION

PRODUCT TYPE

HODT MULTI FILM is a diluted hybrid system, which contains as well a physically drying dispersion as a water-soluble, oxidative hardening binder system.

COLOR

Transparent (clear), black

HANDLING

With brush, roller or airless spraying a dry thickness of at least 100 µm should be reached. HODT MULTI FILM can be diluted with water if necessary. After dilution however you should apply several coats in order to get the required thickness. After 1-2 hours it is touch-dry and after 24 hours it can be recoated depending on temperature and humidity.

PACKAGING

1 Liter	**Tin**
20 Liter	**Pail**

CHARACTERISTICS

- Single component product with excellent adhesion and elasticity
- Primer (recoatable) and topcoat
- Without solvents
- Oxidative hardening
- Economical and uncomplicated in application. In one orperation a thickness of 30 until 50 µm can be applied. (by spray or immersion processes)
- Can be diluted with water in any ratio in order to achieve a thin layer thickness (e.g. on threads)
- High elasticity of the coating ensure that no cracks or chipping during the expansion and contraction of the material appear
- Meets the highest requirements for chemical and mechanical resistance. The coating provides a hard, abrasion-resistant, elastic varnishing with excellent resistance against corrosion, solvents, diluted acids and alkaline solutions etc.. It adheres to nature and synthetic rubber, polyethylene, pvc

SURFACE PREPARATION

Apply only on degreased, cleaned surface.
Applicable also on seized rust.
For information about the precise procedure please take a look at our technical data sheet.

FIELDS OF APPLICATION

- Protection of metal surfaces as primer and topcoat
- Additional protection of coated surfaces against environmental influences and mechanical damage
- Transparent corrosion protection for the maintenance of original Patina

STORAGE

To be stored frost-free.
At temperatures up to 25° the original packed goods are at least storable for 1 year.

TECHNICAL DATA

Viscosity (mPa.s measured with Brookfield at 20°C): 80
Solid contents(Gew. %): 34 - 36
Insulation resistance (in Ω): 5 x 10^{11}
Range of temperature: (in °C): -40 – +120 (+150°– short)
Touch dry (at 20 °C a. 25 µm thickness): 2 hrs
Cure time (at 20°C) : 24 hrs
Resistance against solvents: good
Humidity resistance: good
Thinner: Water

Iveco Hamburg - the vehicles will be preserved ex works with HODT MULTI FILM

HODT Korrosionsschutz GmbH

Flurstraße 8 • D-21465 Wentorf bei Hamburg
Tel: + 49 (0 40) 72 90 40-30 • Fax: + 49 (0 40) 72 90 40-59
info@hodt.de • www.hodt.de

HODT® Korrosionsschutz