OWATROL®

PREMIUM SOLUTIONS FOR WOOD, METAL & DECORATING

Prepare, Clean, Protect,
Decorate, Renovate...

owatroldirect.co.uk

A FAMILY INDUSTRIAL HISTORY FOR 4 GENERATIONS...

Founded in 1923 by great grandfather of the current CEO; over generations the group has constantly grown thanks to its continuous successive innovations:

OUR MISSION

- Invent and distribute high-tech products for simple application.
- For professionals and individuals, our areas of expertise are the renovation, the protection and maintenance of substrates.
- Concerned with the safeguarding of our environment, our laboratory is at the forefront of technological advances

OUR TEAMS

- Sales team which accompanies you on your building ventures
- Telephone support to meet all your technical issues.
- An R&D laboratory to support your projects.

OUR VALUES

- Innovation
- Expertise
- Professionalism
- Responsiveness
- Respect human values

Are the key words that we define.

A GROUP

- Distribution in 50 countries.
- Brands on several continents.
- 2 production sites: Bondoufle (91) and Caudry (59).
- ISO 9001 standards, ISO 14001, OHSAS 18001.

OWATROL Oxi LINITOP DE KEYN ANNO 1849 Wood Lover ThermaCote®

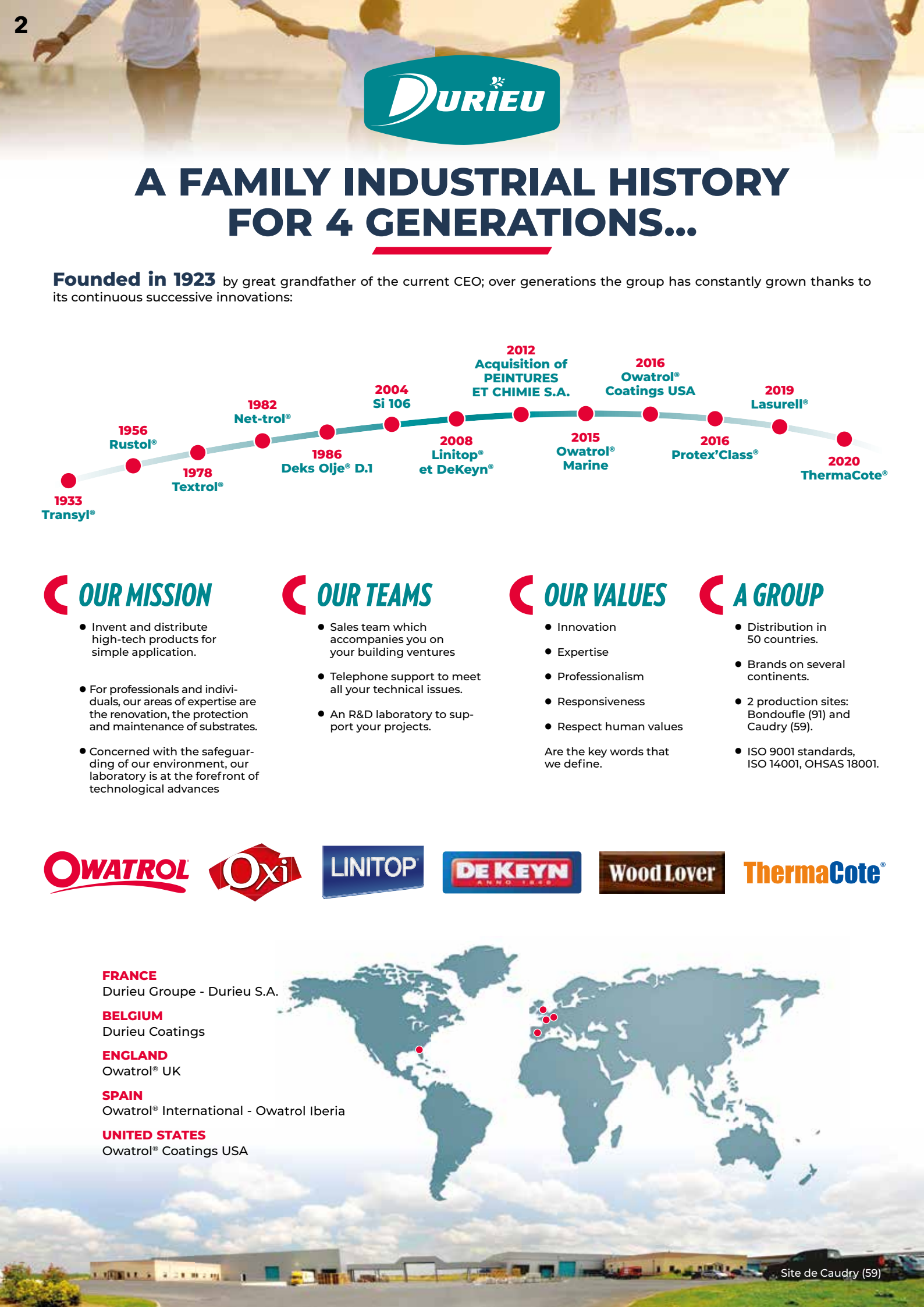
FRANCE
Durieu Groupe - Durieu S.A.

BELGIUM
Durieu Coatings

ENGLAND
Owatrol® UK

SPAIN
Owatrol® International - Owatrol Iberia

UNITED STATES
Owatrol® Coatings USA



Site de Caudry (59)

A NEW BRAND IDENTITY

DEDICATED TO CUSTOMERS AND PARTNERS

OWATROL

ADD LIFE TO YEARS

WOOD

INTERIOR / **EXTERIOR**

PREPARATION

FINISH

METAL

PREPARATION

FINISH

SPECIALITY

PAINTING / **SPECIALITY**

PREPARATION / PREPARATION

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EXTERIOR WOOD /

INTERIOR WOOD /

MARINE RANGE /

METALS /

SPECIALITY /

A FEW WORDS ABOUT WOOD

What are the different wood families?

Wood is mainly composed of cellulose, lignin and water, with various wood species being distinguished by their different organic material content (tannins, resin, natural oils, etc.), and by their density, durability, and impregnation capacity, etc.
Softwoods, hardwoods and exotic woods are classified according to their density.

VERY SOFT WOOD	Density lower than 0.50	Pine, Poplar, Red Cedar, Okoumé, etc.
SOFT WOOD	Density between 0.50 and 0.65	Fir, Spruce, Ash, Walnut, Bossé, etc.
SEMI-HARD WOOD	Density between 0.65 and 0.80	Pine (Oregon, Sylvester, etc.), Oak, Acacia, etc.
HARD WOOD	Density between 0.80 and 1	Ipe, Cumaru, Azobe, etc.

Can cut wood resist the elements naturally?

Several kinds of wood-destructive influences exist:

1 Biological alteration:
Fungi and rot. The wood becomes dirty, shows stains, and decays or discolours (bluish staining). Several factors can trigger this process, including the ambient temperature, significant levels of humidity in the wood, the presence of nutrients, etc.

2 Insects:
Wood-boring insects such as termites, furniture beetles, lyctus beetles, etc. Wood subject to the first two types of destructive influences are called "non-durable" types (Spruce, Maritime Pine, etc.). See the summary table on the opposite page.

3 Climate:
Sunlight (heat), moisture (rain, dew, ice, snow), pollution are aggressive to wood. When unprotected, the wood swells as it absorbs water and shrinks as it dries. The sharp contrast between the hot and cold seasons increases this phenomenon. This will cause wood to crack, check and deform.
Eventually, it loses its natural colour and turns grey.

The first two wood-destructive influences only concern 'non durable' wood but this is not the case for the third type of destructive influence. All wood types, without exception, will eventually deteriorate due to the climatic impact.
For this reason they must be protected.

Hazard and durability classes

Different classes exist for the biological hazards and durability of the wood species.

Classes for wood usage according to NF EN 335 or B 50-100 standards:

Class 1 : Wood which is always protected from the elements and with moisture levels when in use of less than 18% (interior carpentry: furniture, parquet floors, doors, stairs, etc.).

Class 2 : Dry interior wood (moisture lower than 18%); may occasionally exceed this level (Tile battens, etc.).

Class 3 :
- **a :** Exterior wood, above ground, coated. Exposed to frequent wetting (Cladding, Window Frames etc).
- **b :** Exterior wood, above ground, uncoated. Exposed to frequent wetting - moisture levels frequently exceeding 18% (Cladding, Decking etc).

Class 4 : Exterior wood in contact with ground or fresh water. Permanently exposed to wetting (walkways, decks, docks, etc.).

Class 5 : Wood in permanent contact with sea water and which can be immersed.

Penetration and durability table

	HARD-WOODS	SOFT-WOODS	PENETRATION			DURABILITY		
			GOOD	AVERAGE	VERY DIFFICULT	SENSIBLE	AVERAGE	DURABLE
ACACIA		●		●			●	
AFROMOSIA/ASSAMELA	●				●			●
ALDER		●	●			●		●
AMARANTE/PURPLEHEART	●				●			●
ANGELIQUE	●				●		●	●
AYOUS		●		●		●		
AZOBÉ	●				●			●
BADI/BILINGA	●			●				●
BAHIA		●		●		●		
BAMBOO	●				●		●	
BANGKIRAÏ/ YELLOW BALAU	●				●			●
BIRCH		●		●		●		
BOSSÉ	●				●	●		●
CEDRO ROSA/ SOUTH AMERICAN CEDAR		●			●		●	●
CORSICAN PINE		●			●	●		●
CUMARU	●				●			●
DIFOU	●				●			●
DOUGLAS FIR		●			●	●	●	●
DOUSSIÉ	●				●			●
ELM		●		●		●		
EUROPEAN ASH	●			●		●		●
EUROPEAN BEECH	●		●			●		●
EUROPEAN CHERRY		●		●		●		
EUROPEAN HORNBEAM		●		●		●		●
EUROPEAN LARCH		●			●	●	●	●
EUROPEAN REDWOOD		●		●		●	●	●
FRAMIRÉ		●			●	●		●
GARAPA	●			●			●	●
HEVEA		●	●			●		
IPE	●				●			●
IROKO	●				●			●
ITAUBA	●				●			●
JATOBA/COURBARIL	●				●		●	●

	HARD-WOODS	SOFT-WOODS	PENETRATION			DURABILITY		
			GOOD	AVERAGE	VERY DIFFICULT	SENSIBLE	AVERAGE	DURABLE
KAPUR	●				●		●	●
KERUING	●			●		●	●	●
KOSIPO/OMU	●			●				●
LIMBA		●		●		●		
LOCUST TREE	●				●			●
MAÇARANDUBA/ BALATA	●				●			●
MAHOGANY	●				●	●	●	●
MARITIME PINE		●			●	●		●
MERANTI		●		●		●	●	
MERBAU	●				●		●	●
MOABI	●				●			●
MOVINGUI	●				●		●	●
MUIRACATIARA	●				●			●
NIANGON	●				●		●	●
OAK	●				●			●
OKOUMÉ		●		●		●		●
PADAUK	●			●				●
POPLAR		●		●		●		●
RAMIN	●		●			●		
RED LAUAN		●		●			●	●
REDWOOD/SEQUOIA		●	●					●
SAPELLI MAHOGANY	●				●		●	●
SILVER FIR		●		●		●		
SIPO		●			●		●	●
SPRUCE		●			●	●		
SWEET CHESNUT	●				●			●
SYCAMORE		●	●			●		
TATAJUBA	●				●			●
TEAK	●				●		●	●
ULMO		●		●			●	●
WALNUT	●			●		●	●	●
WESTERN RED CEDAR		●		●		●		●
WHITE CEDAR	●				●			●

Penetration: ability of the wood to be penetrated by a treatment/finish.
Durability: ability of the wood to resist attack by biological agents: wood-destroying fungi (mold and blue) and wood-boring insects (beetles, lyctus, termites...).
Durability only apply to the Duramen, also named "perfect wood" or "heart wood" ; sapwood is never durable.
As a conclusion wood that has a good durability doesn't require a wood treatment as pressure treatment.
On the contrary, all woods need a protection/finish against weathering.

Insects of dry wood Termites Fungi

SURFACE PREPARATION

Preparing the wood

Before applying a protective product, the wood should be prepared correctly.
Different solutions can be used, depending on the condition of the surface.

New wood:

- **1 - Softwoods with or without pressure treatment:** durable by nature or pressure treated, softwoods in exterior conditions are particularly vulnerable during their first year of exposure to the elements. Stabilisation is necessary.
  For wood with a moisture content greater than 18%: SEASONITE®
- **2 - Hardwoods:** they are usually dense and/or greasy. After machining, a glaze appears, the pores are closed and this can prevent the penetration of the finish. A simple test consists of putting a drop of water on the wood. If it does not penetrate the wood, the mill glaze must be removed:
  AQUANETT® + NET-TROL® or
  PREPDECK® + NET-TROL® or
  Let the wood weather for 6 to 12 months depending on wood species.

Renovating wood:

Greyed wood - **There are 2 types of greying:**

- **Surface greying:** all unprotected, exterior wood greys and becomes dirty as a result of water/UV cycles.
  Solution: NET-TROL®
- **Grey in the core:** certain protective coatings which are not suitable for exterior wood (linseed oils, teak oils, etc.) become grey and black over time. They must be eliminated in the core of the wood.
  Solution: AQUANETT® + NET-TROL®

Wood which has been stained, painted or varnished:

- **Existing finish in poor condition:** strip the coating:
  DILUNETT® or PREPDECK® or DSP 800 + NET-TROL®
  When cleaning wood with a high pressure cleaner, do not exceed 50 bars.
  Always apply a finish on wood which is clean, dry (max. relative humidity of the wood: 18%), healthy, prepared (degreased, deglazed, etc.). Indoors, the wood must be prepared according to the rules of the trade. Comply with the national standards and regulations in force.

  Refer to the instructions on the packaging and the products technical data sheet. Our technical department is at your disposal to advise you and provide you with technical instructions.

The different treatments

1-Preservation:

Objective: to prevent biological weathering and destructive insects. Give the wood a certain level of durability depending on the treatment used.

The following methods exist:

- **Pressure treatment:** the system consists of a vacuum for impregnating the wood cavities with organic solutions or water-soluble salts to protect it from destructive insects and fungi.

  This process extends the wood's durability, referred to as "guaranteed durability".
- **Soaking:** the wood is immersed in a tank containing preservatives. Wood treated in this way shall be used for classes 1, 2 and possibly 3a (exterior vertical structures with low external exposure to the elements).
- **Staining:** applied with a brush.
- **Thermo-heating:** the wood is heated in an inert atmosphere (between 180°C and 240°C depending on the system). The objective is to increase dimensional stability without adding chemicals.

2-Protection:

Objective: to protect the wood from weathering and prevent greying, cracking, deformation, etc.

The following exist:

- **Saturators:** they protect wood exposed vertically (cladding) or horizontally (decks, etc.).

  DURIEU S.A. invented the saturator in 1978 and our non-film forming formulas combine penetration and wettability to protect all wood types in depth and long-term, and without the risk of peeling, flaking or darkening over time. The coatings are colourless or stained, but they are not subject to abrasion and are ideal for cladding, chalets, decks, etc., on all continents. Can be used for local maintenance.
- **Oils:** some are mistakenly called "teak oils"; they consist of a blend of natural and/or synthetic oils, solvents, driers, etc. Linseed oils also belong to this category.

  These oils "cook" rather quickly when subject to UV and become grey/black. This is called "grey in the core" and needs to be eliminated from the wood in order to restore the natural look of wood. Their protective ability is very limited over time.
- **Glaze coatings:** these are transparent coatings that impregnate the wood and leave a thin film which is very supple and highly resistant to peeling and flaking. Ideal for wood with high dimensional variations. Apply 2 or 3 coatings, depending on the substrate and the desired strength.
- **Waterproofing or damp-proofing:** usually based on wax or silicone; their sole purpose is to create a beading effect.
- **Woodstains:** transparent, semi-transparent or opaque; they protect and at the same time they decorate. Maintenance is required on a regular basis. Colourless stains must not be used without a coloured layer for exterior work (see national standards and regulations in force).
- **Varnishes:** protective, transparent films, with a matt, satin or gloss finish.
- **Paints:** coatings that leave an opaque film and cover the substrate completely.


OWATROL®
ADD LIFE TO YEARS
Our commitment to environmentally friendly products:
FORMULA EASILY BIODEGRADABLE (1)
(1) Test OCDE 301 F - Photo © Irochka.
DILUNETT®
AQUANETT®
NET-TROL®
PREPDECK®
COMPO-CLEAN
SOAPCLEAN

PREPARE OUTDOOR WOOD	PRESERVE SOFTWOOD	STABILIZING HUMIDITY	PREPARE OUTDOOR WOOD
CLADDING, WINDOWS, DOORS, DECKS, GARDEN FURNITURE	**CLADDING DECKS**	**CLADDING DECKS**	**CLADDING DECKS**
CLEAN SURFACES SOAPCLEAN **DE-GREY** NET-TROL®* or PREPDECK®(1) **REMOVE OIL** **REMOVE DEPOSITS** AQUANETT®* PREPDECK®(1)* **STRIP** PREPDECK®(1)* DILUNETT®* or DSP 800* **FADE - LIGHTEN** RENOCLEAR* **REPAIR** COSMOBOIS*	**INSECTICIDE** **FUNGICIDE** TMU 84 NG*/** **PROTECT CUT ENDS** PCD 91* 	**PRESSURE TREATED WOOD** SEASONITE®* 	**PRIMER** STAN PROTECT* 

PROTECT			
CLADDING	**WINDOWS AND DOORS**	**DECKS**	**GARDEN FURNITURE**
SATURATE AQUADECKS®*, TEXTROL® HES*, AQUATROL®*, D.1 PRO* **LONG LASTING PROTECTION** TROPITECH® "All in One"* SOLID COLOR STAIN* **VARNISH** DEKS OLJE® D.2* **GREYS NATURALLY AND IS WATER RESISTANT** H4 WOOD & STONE	**SATURATE** AQUADECKS®*, TEXTROL® HES*, AQUATROL®*, D.1 PRO* **LONG LASTING OPAQUE PROTECTION** SOLID COLOR STAIN* **VARNISH** DEKS OLJE® D.2* **GREYS NATURALLY** H4 WOOD & STONE	**SATURATE** AQUADECKS®*, TEXTROL® HES*, AQUATROL®*, D.1 PRO* **LONG LASTING PROTECTION** TROPITECH® "All in One"* SOLID COLOR STAIN* **GREYS NATURALLY** H4 WOOD & STONE	**APPLY OIL** TEAK OLJE* **SATURATE** AQUADECKS®* D.1 PRO* 

(1) Essential if finishing with TROPITECH® "All in One"*

* Hazardous - Follow the safety instructions. ** Use biocides with caution. Read the label and the product information before use.

Remove the existing layer of finish (treatments, paint, varnish) to restore the original wood.
3 possible solutions based on the finish to be removed and the substrate it's being applied to:

	Interior	Exterior	Solvent	Acrylic	2 pack	Multipurpose	Ferrous metals	Wood	PVC
DSP 800	✔	✔	✔	✔	✔		✔	✔	
PREPDECK®		✔	✔	✔		✔	✔	✔	✔
DILUNETT®		✔	✔	Test Recommended		✔	✔	✔	✔

DSP 800*

UNIVERSAL PAINT STRIPPER FOR SINGLE AND TWO PACK PAINTS

Powerful and effective for easy stripping

1-4 m²/l | + 25°C + 10°C | 1L - 5L

- Fast acting: stripped surfaces can be painted after one hour.
- Compatible with: Glycerophtalic (alkyd/oil based) paints, Acrylics, PU, Epoxy (inc. oven-baked paints), Varnish (PU, cellulose), Wood stains, Semi thick coatings (RSE), and Thick plastic coatings (RPE).
- Easy to use gel formula - Non drip.
- Use on wood, metal, brick, stone, concrete, cement, fiber cement, top coated with old paints and or varnishes**.
- Can also be used in interior.

PREPDECK®* BIOBASED

3 PRODUCTS IN 1:
REDUCES MILL GLAZE, REMOVES DIRT, STRIPS

Cladding, decking... Hardwoods & softwoods

3-4 m²/l | + 30°C + 5°C | 1L - 2L5 - 10L

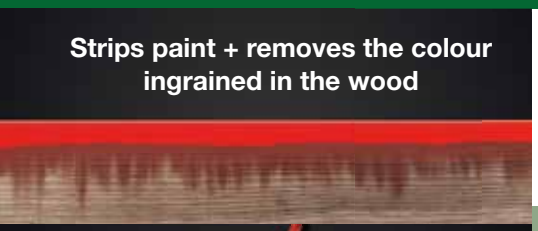
WATER BASED

BIOBASED 90% NORM EN 16640 FORMULA®

APPLICATION VIDEO

- Waterborne, multi-purpose, professional product.
- Reduces mill glaze on new wood.
- Cleans weathered wood.
- Strips old finishes from exterior woods.
- Always Clean/Neutralise with Net-trol and rinse thoroughly.
- Use before finishing with TROPITECH® ALL IN ONE.

* Hazardous - Follow the safety instructions. ** Except plastic. Avoid long standing time on aluminum. (2) Partly made from bio-based materials



DILUNETT®*

WATER-BASED STRIPPER

Wood, metal***, PVC...**

± 4 m²/l | + 30°C + 5°C | 0L5 - 1L - 2L5 - 10L

Apply **DILUNETT®** on to dry wood.

On paint, let it work for at least 30 minutes per coat.

Rinse thoroughly with water.

- Strips paint, stains, varnish, etc. Remove finish without scraping.
- Gel consistency. Does not drip or run.
- Easily removed with water - Makes the coating water soluble.
- Does not evaporate. Does not dry out in high temperatures.
- Re-activated by wetting.
- On Wood, always neutralise with NET-TROL®.

Removes up to 8 coats in 1 application

PRO TIPS

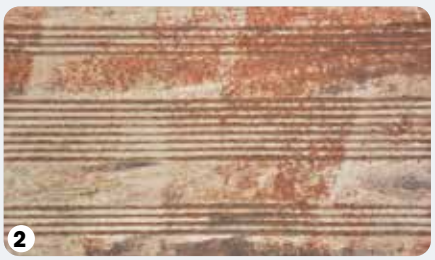
Can be combined for multi-purpose uses

PRACTICAL WORK SITE EXAMPLE:
- On this deck made of exotic wood, as a first step the wood has been impregnated with a red treatment (stain deeply set into the wood).
- Two years later, two coats of linseed oil were applied which has darkened due to U.V.

Goal: Remove darkened oil + old treatment + the impregnated stain in a single operation.

APPLICATION VIDEO

OUR SOLUTION : DILUNETT®* + NET-TROL®*



Initial situation: Darkened linseed oil + peeling red treatment + impregnated stain.

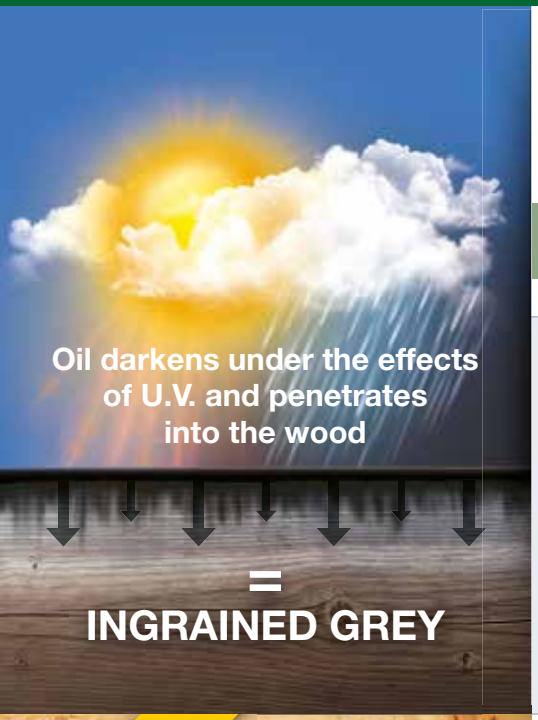
Application of DILUNETT®* on to dry wood. Removal of the oil, treatment and stain in a single operation.

Rinse thoroughly with water.

Apply NET-TROL®* onto wet wood to neutralise.

The original appearance of the wood is restored.

* Hazardous - Follow the safety instructions. ** Except Oak, Chestnut, Red Cedar and marquetry. *** Except aluminum. (1) Test OCDE 301 F.



AQUANETT®*

OIL REMOVER / STRIPPER FOR ALL WOODS**

Cladding, decking, Garden furniture...

5 min

WATER BASED

± 6 m²/L | + 30°C + 5°C | 1L - 2L5 - 10L

FORMULA EASILY BIODEGRADABLE

WHY DOES WOOD PROTECTED WITH OIL DARKEN?

Wood undergoes 2 types of greying: chemical, with the oils cooking + damage to the lignin. Deep cleaning is essential. The solution:

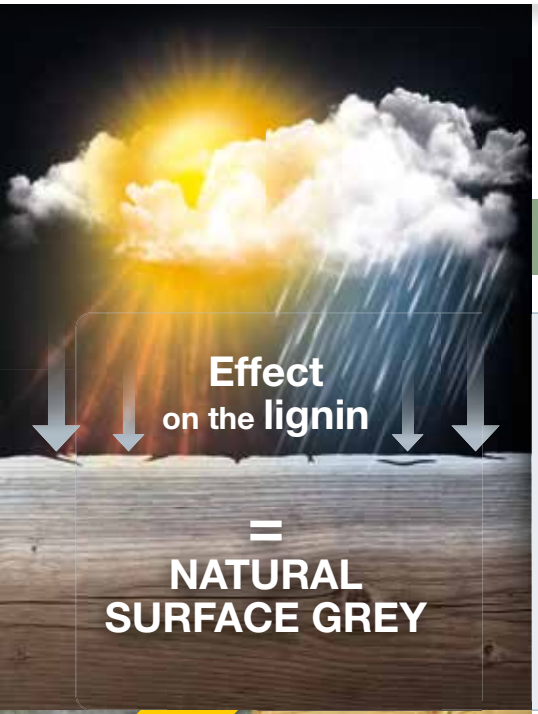
On dry wood, apply **AQUANETT®**

Let it work for 5 minutes, then rinse thoroughly with water

immediately after, apply **NET-TROL®**

APPLICATION VIDEO

- Removes oil from wood: All wood can darken because of unsuitable protection (linseed oil, teak oil etc) due to the effects of water/UV cycles. It is the "encrusted dirt".
- Deep removal of darkened oils and stains. Makes them water soluble.
- Gel consistency. Does not drip or run.
- On wood, always neutralise with NET-TROL®. Reduces mill glaze from new wood.



NET-TROL®* BIOBASED

WOOD CLEANER AND COLOUR RESTORER

Decking, cladding, Garden furniture...

10-20 min

WATER BASED

5-10 m²/l | + 30°C + 5°C | 1L - 2L5 - 15L

BIOBASED 89% FORMULA

WHY DOES UNPROTECTED WOOD GREY?

Due to the effect of U.V. rays and weather damage, the lignin in the affected wood is altered → grey wood. Solution for decks, cladding and garden furniture:

Apply **NET-TROL®** onto wet wood

Let it work for 15/20 minutes then rinse thoroughly with water

Result@

APPLICATION VIDEO

- Cleans and restores all "greyed weathered wood" (grey surface) without bleaching.
- Neutralises surfaces stripped with AQUANETT®, DILUNETT® or PREPDECK®.

Removes: • traces of weathering attributed to mould, mildew, pollution...
• traces of tannin and iron sulphate.

Use on stone, green-stained PVC or rust stained cement.

Fast acting - Results achieved within 10/20 min.

* Hazardous - Follow the safety instructions. ** Except Oak, Chestnut. (1) Test OCDE 301 F. (2) Partly made from bio-based materials

RENOCLEAR*

BLEACHING AGENT

For decking, cladding

APPLICATION VIDEO

10-12 m²/l | + 25°C + 10°C | 5L

Removes flaws, which lead to discoloured or darkened areas on new or old wood in order to restore uniform colour.

Before

Apply **RENOCLEAR***

Let it work between 6 and 24 hours depending on the severity of the staining.

Without rinsing, apply SOAPCLEAN and scrub with a brush. Let it work for 5 minutes, then rinse with plenty of water.

- Lightens discolouration and/or darkening of the wood including marks from blue stain fungi.
- Restores a uniform appearance without sanding.
- Removes marks due to tannin streaks.
- Effective on all types of wood including modified ones (Accoya, Bamboo, Heat Treated, etc.).
- Ready-to-use, do not dilute. Apply to dry wood.
- Clean/neutralise with SOAPCLEAN and rinse thoroughly.

SOAPCLEAN

CLEANER FOR ALL TYPES OF WOOD

Removes surface stains without altering the wood

WATER BASED

FORMULA EASILY BIODEGRADABLE(1)

25-250 m²/l | + 30°C + 5°C | 1L

- Clean cladding or decking which is marked and/or dirtied by outdoor weathering (pollution, pollen, mould, grime, etc.)
- Clean new or old wood before applying a finish (saturators, treatments, paint, etc.).
- Clean dirty wood to maintain its natural appearance. Do the same before applying a water-repellent such as H4 WOOD & STONE.

Does not contain acids. Does not damage the substrate, even delicate ones. Strong degreasing power. Does not leave a greasy residue on the surface.

SOAPCLEAN can also be used indoors: see page 29. To remove ground in dirt use PURATROL* (see below). SOAPCLEAN does not remove ingrained or surface greying.

* Hazardous - Follow the safety instructions. (1) Test OCDE 301 F.

FOCUS ON PRESSURE TREATMENT

To recall 'pressure treated wood' has received a treatment designed to protect it against attack by insects and fungi.

However, this treatment does not provide any protection against weather damage (U.V., humidity, pollution). If nothing is done, the wood will degrade over time, it will grey, which is where the need to protect it arises.

THE TWO MAIN PROBLEMS WITH PRESSURE TREATED WOOD

1. Stabilise their high moisture:

To limit shrinkage or swelling when using it outdoors (wooden framing and outdoor carpentry), the moisture content of the wood must not exceed 18%. The majority of the time this moisture content is far higher, especially for new pressure treated wood. When subjected to changes in temperature (sun, cold, etc.) this moisture content risks causing cracking, splitting, even deformation making it necessary to stabilise the wood.

SEASONITE®

CLEAR NEW WOOD PROTECTION

Stabilises new wood, reduces splitting

5-7 m²/l | + 30°C + 5°C | 1L - 2L5 - 15L | WATER BASED

- Stabilises and protects new wood during its first months of exposure to the weather.
- Regulates the evaporation of moisture from the wood.
- Minimises the splitting, swelling, cupping and checking caused by exposure to the sun and rain.
- Limits greying and prepares wood to receive the finishing coat.
- Essential for pressure treated wood.

2. Protect cut ends:

When cutting, notching, boring or doing other specific processes on treated wood in classes 3a, 3b and 4, it is essential that all exposed surfaces are treated with a brush applied complementary treatment to help rrestore and maintain the original protection.

PCD 91 *

END GRAIN PRESERVATIVE FOR CUT, BORED OR NOTCHED PTW

For use on wood treated to classes 3 and 4

5-7 m²/l | + 30°C + 5°C | 1L - 2L5 - 10L | WATER BASED

- Protects against insect and fungal attack.
- Maintains the preservative treatment of pressure treated wood.
- Can be top coated with any type of finish.
- Quick drying. Odourless.

VERT AUTOCLAVE | CLEAR

* Hazardous - Follow the safety instructions.

HARDWOOD AND SOFTWOOD

Tannin is an organic substance found in numerous plants and many types of wood such as Red Cedar, Oak, Chestnut, etc. Under the effect of outdoor weather and when it is humid the tannins in the wood rise to the surface and cause unpleasant streaking.

TEAK-OLJE*

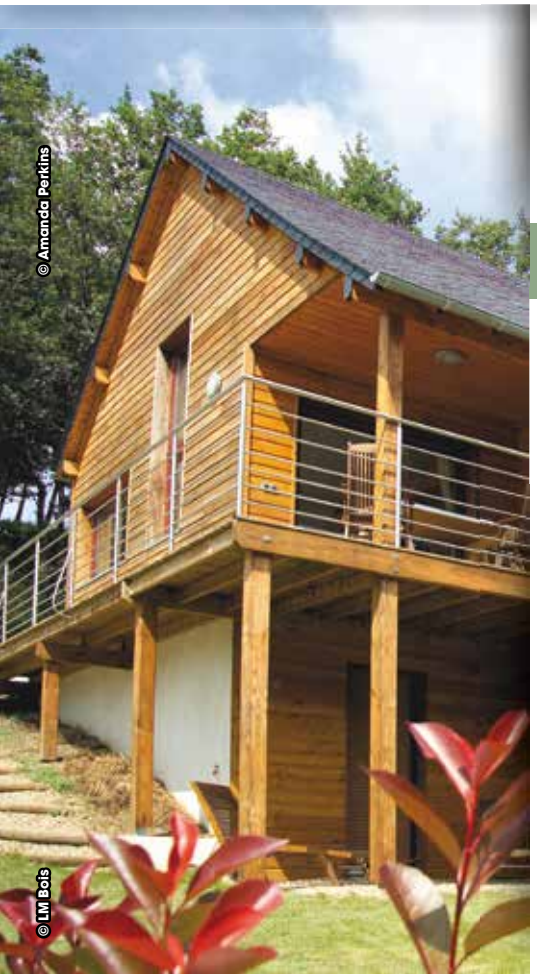
TEAK OIL "EXCLUSIVE FOR GARDEN FURNITURE"

Protects and nourishes the wood

10-14 m²/l per coat		+ 30°C + 5°C	0L5 - 1L - 2L5

Wrongly referred to as «teak oils», they are made of a mix of natural oils and/or synthetic ones, solvents, siccatives, etc. You can also find linseed oil. These oils «cook» quite quickly under the effects of U.V. rays and grey/blacken. Our oil doesn't darken over time because its chemical composition is totally different.

- Transparent and colourless - "matt oiled" appearance.
- Maintains the natural appearance of the wood.
- Non film-forming. No peeling. No flaking.
- Easy to maintain. No stripping. No sanding.



AQUATROL®* BIOBASED

WATER-BASED SATURATING FINISH - GEL CONSISTENCY
SPECIFICALLY FOR WEATHERED WOOD – DECKING / CLADDING...

Softwood: cedar, douglas fir, larch, ptw,...

10-15 m²/l per coat		+ 30°C + 10°C	1L - 5L - 20L

- Excellent protection. Clear matt oily finish.
- Long lasting natural look. Does not darken due to UV exposure.
- Easy application. Gel formula - Does not run.
- Non film-forming. No peeling. No flaking.
- Easy to maintain. No stripping. No sanding.
- Available in 2 wood tones that can be inter-mixed:

CLEAR GOLDEN OAK

Clear can be tinted, consult us.

* Hazardous - Follow the safety instructions. (1) Partly made from bio-based materials

PROTECT OUTDOOR WOOD - All types of outdoor wood including pressure treated wood are sensitive to U.V. and weather damage. Of the three main wood polymers (cellulose, hemicellulose and lignin) the lignin plays a key role: it forms the matrix of the wood's cell wall. The cellulose is highly sensitive to humidity and degradation by micro organisms, lignin is weakened by U.V. rays making it change colour (surface grey) or even making it water-soluble due to the destruction of its structure.To avoid this, all outdoor wood exposed to the elements (including pressure treated wood that has been treated for preservation and not protection) must be regularly protected:

- Protect it against the elements and U.V. ➜ Avoid greying, cracking, warping, etc.
- Preserve the natural colour of the wood or give it a different look.

To deal with problems specific to work sites, some of our solutions have «high performance» hybrid water technology:

- **Alkyd resin** = Penetrates and seals + adheres to difficult substrates.
- **Acrylic resin** = Harden on the surface for enhanced abrasion and U.V. resistance.

PRO TIPS

The basic rules for preparing wood prior to protection

- Work with dry, clean wood and non-greasy (degrease with **SOAPCLEAN** or **PURATROL***).
- Check that the wood is free of mill glaze and open (permeable) with the water drop test which consists of putting a drop of water onto the wood:
  - if it penetrates ➜ the wood is porous / free of mill glaze and thus can be protected.
  - if it doesn't penetrate ➜ the wood in that state is not permeable and therefore cannot be protected. So it is necessary to:

SOLUTION 1 : wait between 4 to 12 weeks for the weather to naturally break down the mill glaze

or

SOLUTION 2 : mechanically sand or chemically (**AQUANETT®*** or **PREPDECK*** + neutralise with **NET-TROL®***) treat the substrate to remove the mill glaze.

TEXTROL®*

HIGH QUALITY PENETRATING OIL FOR SOFTWOODS - DECKING / CLADDING...

Cedar, douglas fir, larch, ptw, ...

RUSTOL-OWATROL® OIL TECHNOLOGY

10-12 m²/l per coat | + 30°C + 5°C | 1L - 5L - 20L Clear: 2,5L

DOES NOT DARKEN DUE TO UV EXPOSURE

- Based on natural oils.
- Non film-forming protection, transparent, matt "oiled appearance".
- Maintains the natural appearance of the wood.
- Does not flake or peel. a not darken due to UV exposure.
- Easy maintenance - no sanding or stripping.
- Available in 8 colours that can be intermixed.

CLEAR | LIGHT OAK | CEDAR | REDWOOD | GOLDEN OAK | MEDIUM OAK | RUSTIC OAK | WEATHERED GREY

TEXTROL® HES*

HIGH SOLID CONTENT ONE COAT PENETRATING OIL FOR DECKS CLADDING...

Douglas fir, ptw, ...

RUSTOL-OWATROL® OIL TECHNOLOGY

± 12 m²/l per coat | + 30°C + 5°C | 1L - 5L - 20L

DOES NOT DARKEN DUE TO UV EXPOSURE

- Should be applied only on clear soft wood.
- Based on natural oils. • Superior UV protection = high protection.
- Maintains the natural appearance of the wood.
- Adapts to the variations in the woods structure.
- Non film-forming, does not flake or peel.
- Microporous.
- Softwoods (PTW, THT, Spruce, ...).
- Available in 5 colours that can be inter-mixed:

CLEAR | LIGHT OAK | CEDAR | REDWOOD | RUSTIC OAK

* Hazardous - Follow the safety instructions.

H4 WOOD & STONE

COLOURLESS WATERPROOFING

Cladding, chalets, etc. vertical and horizontal surfaces

3-6 m²/l per coat | + 30°C + 5°C | 1L - 2L5 - 10L

APPLICATION VIDEO

- Deeply penetrates the substrate and makes it impermeable.
- Colourless, allows the wood to naturally grey while protecting it from problems due to moisture.
- Allows the wood to breathe. Without anti-U.V. Improves the self-washing of the cladding.
- New silicone free generation: can be painted over with any type of finish.

SOLID COLOUR STAIN*

OPAQUE MATTE DECORATIVE PROTECTION

Cladding, decking and masonry

8-10 m²/l per coat | + 30°C + 10°C | 1L - 2L5 - 20L

WATER BASED

- Primer and finish in one.
- Preserves the relief and grain of the wood.
- Superior adhesion - Long lasting performance - Excellent weather resistance.
- Guaranteed against flaking: 5 years for horizontal surfaces and 15 years for vertical surfaces.
- Can also be applied on concrete and PVC.

DECKING PAINT*

DECK PAINT OPAQUE WOOD FINISH

Protects against moisture damage

8-10 m²/l per coat | + 30°C + 10°C | 1L - 2L5 10L - 20L

WATER BASED

- A premium long-lasting finish for treating your deck, works on new and weathered wood and for recoating old applications.
- Fortified with OWATROL'S E-B® (EMULSA-BOND®) for superior adhesion.
- Perfect for : Decking / Fencing / Sheds / Garden furniture...
- Guarantee 5 years.

SHED & FENCE PAINT*

PREMIER AND ACRYLIC STAIN IN ONE

Fencing / Sheds / Garden furniture...

8-10 m²/l per coat | + 30°C + 10°C | 1L - 2L5 10L - 20L

WATER BASED

- Rich solid colour provides long-lasting protection while covering the signs of aging and weathered wood.
- Fortified with OWATROL'S E-B® (EMULSA-BOND®) for superior adhesion.
- Guarantee 15 years.

MASONRY PAINT / DECKING PAINT / SHED & FENCE PAINT ► 35 colours that can be inter mixed

WHITE | BIRCH WOOD | AGED GREY | LIGHT GREY | SAND DOLLAR | PRAIRIE DUST | IVORY | STONE | SEA FOAM GREEN | WINTER SKY | WAVE GREEN | TRADITIONAL GREY | TRADITIONAL STONE

BLUE | CEDAR | BARK BROWN | OLIVE | SEA BLUE | LIGHT BLUE | SHALE | GREEN | GREY | LIGHT GREEN | CANYON | FOREST DEW | BRICK RED

DARK BROWN | COFFEE | BLUE GREY | MALLARD GREEN | MAHOGANY | TRADITIONAL OXFORD BROWN | DEEP RED | BLACK | MID BROWN

+ 3 bases to be tinted:

PASTEL BASE | MID TONE | DEEP TONE

* Hazardous - Follow the safety instructions. (1) Provided that the preparation of the wood and the application are done according to the manufacturers requirements.


© Alexandre Zveiger

AQUADECKS®*

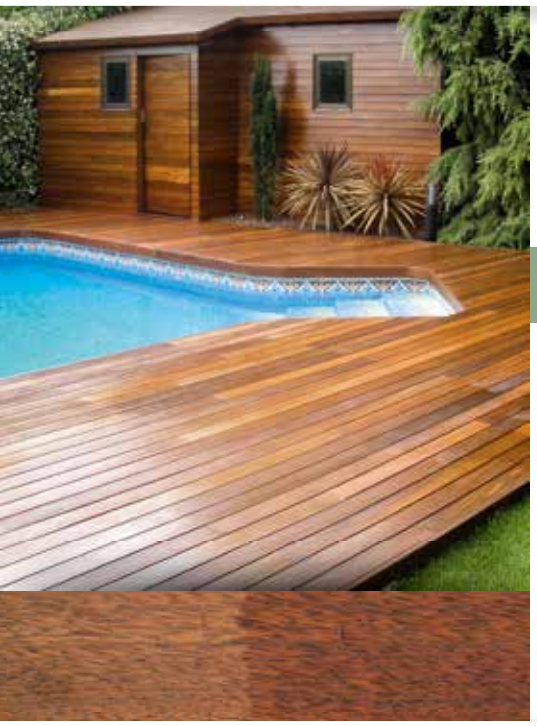
WATER-BASED SATURATING MATT FINISH FOR ALL WOODS - DECKING / CLADDING

Direct on new properly prepared wood
Reinforced UV protection

10-12 m²/l per coat | + 30°C + 10°C | 1L - 5L - 20L

- Transparent finish – direct on new prepared wood.
- Maintains natural appearance of the wood.
- Fast drying.
- Non film-forming - does not flake or peel.
- Quick and easy maintenance - no sanding or stripping.
- All woods: soft, hard, THT, etc.
- Available in 6 colours that can be inter-mixed:

HONEY (WET WOOD APPEARANCE) | MOVINGUI | TEAK | WEATHERED GREY | GRAPHITE GREY | EBONY



D.1 PRO*

SATURATING OIL FOR HARDWOODS

Decking, docks, garden furniture...
Reinforced uv protection

8-12 m²/l per coat | + 30°C + 5°C | 1L - 5L - 20L

- Transparent protection, "oiled appearance", clear or tinted.
- Maintains the natural appearance of the wood. Does not darken through exposure to UV.
- Non-film forming - does not flake or peel.
- Quick and easy maintenance - no sanding or stripping.
- Ideal for Ipe, Teak, Cumaru, Massaranduba, Tatajuba, Acacia, Bangkirai.
- Can be coated with DEKS OLJE® D.2 (boat varnish) on vertical surfaces.
- Available in Honey Gold:

HONEY GOLD


© Wooden Walkway

ANTISLIP*

NON-SLIP PROTECTION

Antislip decoration and protection in one

± 13 m²/l per coat | + 30°C + 5°C | 1L - 5L

- Slip resistant protection for all wooden decks, pontoons, stairs...
- Decorates and protects - Lasting performance.
- Good UV and weather resistance.
- Contains antislip microspheres based on special polymer technology.
- Quick and easy maintenance. No sanding or stripping.
- Available in 3 colours:

CLEAR | LIGHT OAK | TEAK

* Hazardous - Follow the safety instructions.

CLEAN AND PROTECT COMPOSITES

Wood composites are materials made up of a combination of wood fibres and plastic resins. They are used, in addition to other purposes, for making doors and windows as well as decks and docks. Known for being resistant to weathering, and the sun because of the stain it contains, it has various numerous other properties. The wood fibres and resins vary according to the manufacturing process. As with all substrates used on the ground, it dirties over time, gets marked and impregnated with oil, not to mention the accumulation of organic matter and/or mildew that needs to be removed. So, it's colour is going to change over time.
Regular and periodic cleaning is necessary to preserve its appearance and to be able to make the most of the structure.
If needed, it is possible to restore the colour and give it a facelift.

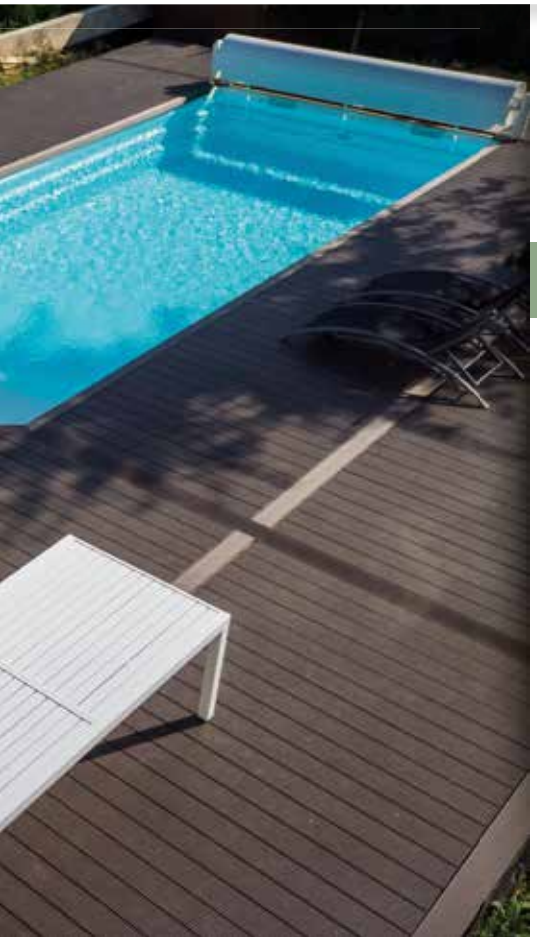
COMPO-CLEAN*

CLEANER DEGREASER FOR COMPOSITE WOOD

Removes grease, stains... Easy to use

5-10 m²/l | + 30°C + 5°C | 1L - 2L5 - 15L

- Removes all types of dirt (stains, grease, pollution...).
- Fast acting - 5 min. Rinse with water.
- Gel formula - does not run.
- Does not attack plastics, swimming pool liners, plants, etc.
- Ideal for grooved decking, garden furniture, etc.



COMPOXELL*

WATER-BASED FINISH FOR DECORATING AND RESTORING COMPOSITE WOOD

Waterproofing protection

± 10-12 m²/l | + 30°C + 5°C | 1L - 2L5

- Semi-transparent tinted coating.
- Stain resistant barrier (oil, grease, food, etc.).
- Waterproofs the surface.
- Easily applied.
- Quick drying/ low odour.
- can be applied on new composite board.
- Exterior: all composite woods (decking, cladding, garden furniture….).
- Ideal for grooved composite decking.
- Available in 2 tones:

GREY BROWN

* Hazardous - Follow the safety instructions. (1) Test OCDE 301 F.

PRIMAFLOOR®*

2 IN 1: WATERBORNE PRIMER AND STAIN

Compatible with all wood. Odourless

10-12 m²/l per coat | + 25°C + 10°C | 1L

- Primes and stabilises the wood - Evens out the woods porosity.
- Strengthens adhesion of the finish, ensuring optimum performance.
- Prevents bonding of sides and joints by the finish - Allows floor boards to expand and contract.
- Ready to use. Lightfast - Colours do not fade. Non yellowing.
- Prevents tannin bleed and staining of the finish from woods rich in tannins and natural oils.
- Bare wooden flooring, parquet and veneered (engineered) flooring.
- Available in Clear.

CLEAR

VEGAFLOOR®*

WATERBORNE HIGH PERFORMANCE VARNISH

Normal to heavy traffic use

10-12 m²/l per coat | + 25°C + 10°C | 1L

- Single pack waterborne polyurethane resin finish. Non-slip.
- Excellent resistance to both mechanical and chemical abrasion, including ammonia based products.
- Long lasting protection to all wooden flooring.
- Maintains the woods natural colour. Non-yellowing and resistant to light.
- Easy to use. Quick drying.
- May be applied over previously solvent or waterborne varnished surfaces.
- All wooden floors, new and old including parquet flooring, veneered (engineered) flooring and staircases.

MATT

SOAPCLEAN*

GENTLE, NATURAL SOAP CLEANER FOR FLOORS

All types of wood

+ 25°C + 10°C | 1L

- Ideal for everyday cleaning.
- Concentrated formula - Highly economical.
- Cleans without damaging the finish.
- Traditional lacquered and pre-finished wooden floors, laminated, veneered, melamine and vinyl flooring.

* Hazardous - Follow the safety instructions. (1) Test OCDE 301 F.

OWATROL MARINE

Our commitment to environmentally friendly products:

FORMULA EASILY BIODEGRADABLE (1)

MARINE STRIP

DECK CLEANER

DEEP CLEANER

(1) Test OCDE 301 F - Photo © Irochka.

DEKS OLJE® D.1 *

CLEAR SATURATING MARINE WOOD OIL

Hardwoods

RUSTOL-OWATROL® OIL TECHNOLOGY

8-12 m²/l per coat | + 30°C + 5°C | 1L - 2L5 10L - 20L

APPLICATION VIDEO

- High resistance to extreme conditions. Long lasting protection.
- Maintains the natural appearance of the wood.
- Transparent matt protection, "oiled appearance" (for a gloss finish topcoat with DEKS OLJE® D.2).
- Non-film forming - No peeling, No flaking. Easy maintenance - No stripping or sanding.
- Exterior and interior - Decks, Hulls, Trim, Wheelhouse, Furniture…
- Horizontal and vertical surfaces.
- All wood types - Teak, Mahogany, Cedar, Iroko, Oak, Larch…
- Excellent primer for traditional coatings both above and below the waterline.



DEKS OLJE® D.2 *

HIGH GLOSS MARINE VARNISH FOR HARDWOOD

Mirror effect

RUSTOL-OWATROL® OIL TECHNOLOGY

± 15 m²/l per coat | + 30°C + 8°C | 1L - 2L5 - 10L - 20L

- High gloss finish. Enhances the natural beauty of the wood.
- Long lasting flexible film. Does not craze, peel or flake.
- Easy maintenance. No sanding between coats.
- All wood types - Oak, Ash, Teak, Mahogany, Larch...
- Exterior - Rubbing strakes, Handrails, Wheelhouse, Booms, Masts...
- Interior - Furniture, Seating...



* Hazardous - Follow the safety instructions.

DEEP CLEANER*

CLEANS AND DEGREASES

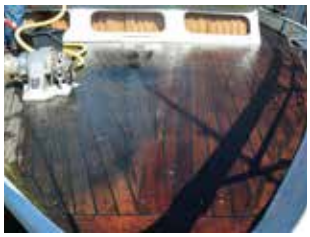
New formula : Gelified and Biodegradable

5-7 m²/l | + 30°C + 5°C | 2L5

APPLICATION VIDEO

- Removes wood oils (teak, linseed, ...), lubricating oil and grease stains. Simply rinse with water.
- Fast-acting : works in 5 mins.
- Step 1 : DEEP CLEANER + step 2 : DECK CLEANER.
- Biodegradable.





DECK CLEANER*

RESTORES GREYED WOOD

Fast acting

5-10 m²/l | + 30°C + 5°C | 1L - 2L5 - 15L

APPLICATION VIDEO

- Restores surface's original appearance
- Boat decks, outdoor furniture, etc..
- Cleans, brightens and degreases wood.



MARINE STRIP*/**

STRIPS PAINT, ANTIFOULING AND VARNISH

Solvent free

± 4 m²/l | + 30°C + 5°C | 1L - 2L5 - 10L

- Easy removal, simply rinse with water.
- Use on wood**, metal** and Gelcoat.
- Solvent free - Non-flammable - No toxic fumes - Easily removed with water.

* Hazardous - Follow the safety instructions. ** Do not apply to oak, chestnut, red cedar or aluminium. (1) Test OCDE 301 F.

TEAK PROTECT*

WATER-BASED SATURATOR

WATER BASED

DOES NOT DARKEN DUE TO UV EXPOSURE

10-12 m²/l per coat | + 30°C + 10°C | 1L

- Matt finish that accentuates the beauty of wood.
- Non-film forming - Will not peel or flake.
- Apply to new or weathered wood.
- Premium UV absorbing transoxide pigments - Provide a long lasting finish.
- Maintains the natural look of the wood and caulk.
- Allows caulk to breathe while protecting it from moisture.
- Easy maintenance - No sanding or stripping.
- Hard and Softwoods: Larch, Cedar, Oak, Teak, Mahogany…
- Decks, Furniture, Pontoons, Walkways, Handrail…

HONEY TEAK

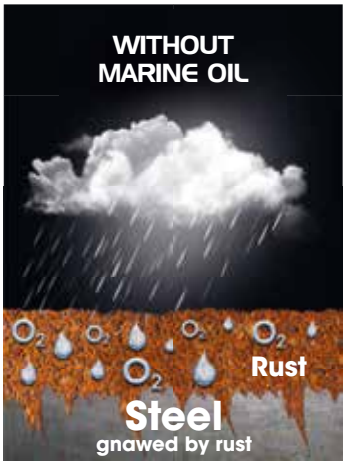
MARINE OIL*

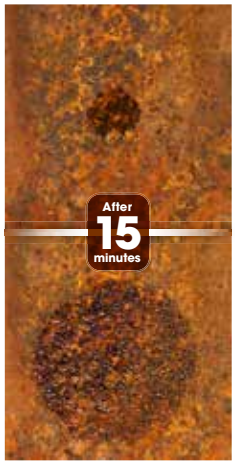
COLOURLESS MULTI-PURPOSE RUST INHIBITOR

RUSTOL-OWATROL® OIL TECHNOLOGY

± 18 m²/l | + 30°C + 5°C | 0L5 - 1L - 5L

- Deep penetrating, stopping and stabilising rust.
- Prevents reappearance of rust.
- Can be added to paint or varnish.
- Adds flexibility and prevents rust.





OWATROL®-C.I.P.*

PIGMENTED CORROSION INHIBITING PRIMER

RUSTOL-OWATROL® OIL TECHNOLOGY

± 15 m²/l per coat | + 30°C + 5°C | 0L75 - 2L5

APPLICATION VIDEO

- Penetrates and stabilising rust.
- Apply directly to rust. Ideal for slipways, keels, …

RED BROWN

* Hazardous - Follow the safety instructions. (1) Test OCDE 301 F.

PID 60 MARINE*

CORROSION INHIBITING PRIMER DRY IN 60 MINUTES

6-13 m²/l per coat | + 30°C + 5°C | 1L - 2L5

- Can be coated with 1 or 2 pack finishes PU and/or epoxy.
- Apply to surfaces above or below the waterline, new or partly rusted surfaces.

MID-GREY

OWALAK MARINE*

HIGH GLOSS ENAMEL.
HIGH PERFORMANCE SILICONE ALKYD

RUSTOL-OWATROL OIL TECHNOLOGY

8-12 m²/l per coat | + 30°C + 5°C | 1L - 2,5L

- High gloss and "Long-lasting" protective film.
- Steel, aluminium, polyester, wood, etc.
- Above the water line.
- Easy to apply.

WHITE

OWATROL®-GLV*

CORROSION INHIBITING
TREATMENT GALVANISED EFFECT

RUSTOL-OWATROL OIL TECHNOLOGY

± 18 m²/l per coat | + 30°C + 5°C | 0L75 - 2L5

APPLICATION VIDEO

- Direct on rust.
- Treatment and finish.
- High opacity semi-gloss protection.

GALVANISING

* Hazardous - Follow the safety instructions.

OWAGRIP*

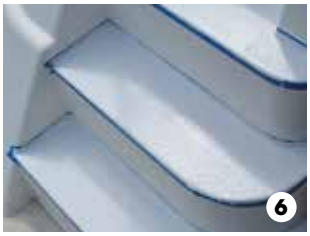
NON-SLIP POLYURETHANE MARINE PAINT FOR DECKS

APPLICATION VIDEO

9-10 m²/l per coat | + 30°C + 5°C | 1L

- Excellent resistance to wear.
- Resistant to extreme weather conditions.
- Apply to gelcoat, old paint, steel, aluminium and wood.

WHITE CHAMPAGNE LIGHT GREY



MARINE POLYTROL®*

NO-POLISH GELCOAT RESTORER

RUSTOL-OWATROL® OIL TECHNOLOGY

APPLICATION VIDEO

± 18 m²/l | + 30°C + 5°C | 0L5 - 1L

- Revives the colour and appearance of tarnished hulls.
- Restores the shine of polished metals and chrome, stainless steel, …
- Restores aluminium masts.

* Hazardous - Follow the safety instructions.

OWAYELL*

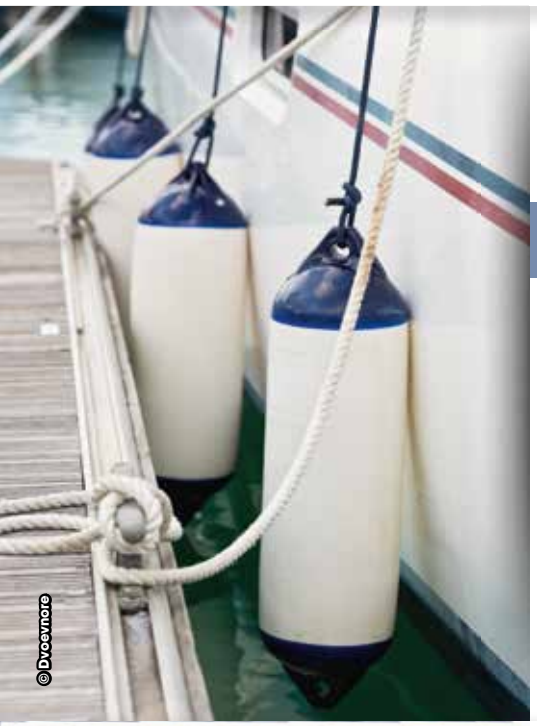
REMOVES YELLOWING/SCALE/RUST

+ 30°C
+ 5°C
1L

APPLICATION VIDEO

- Removes yellowing on gelcoats in minutes.
- Easily loosens scale.
- Removes rust marks on paint, stainless steel, gelcoat, ...
- Restores tarnished and oxidized aluminum.





BLACKBAT 2 IN 1*

CLEANS/DEGREASES FENDERS & RUBBING MARKS

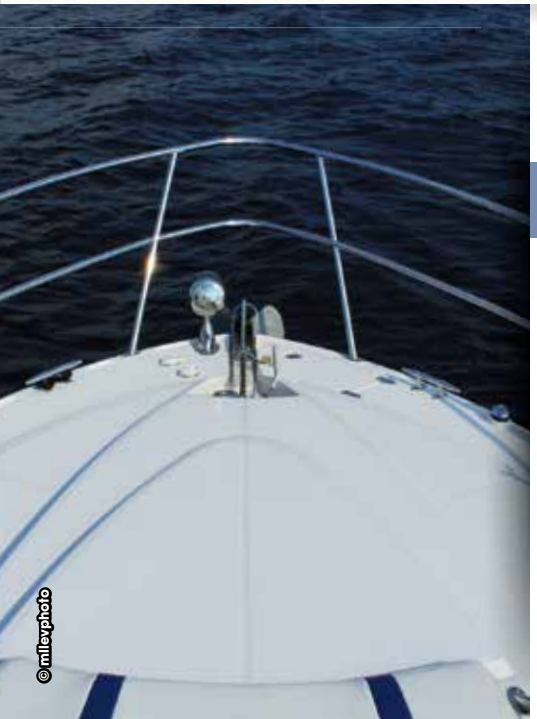
FORMULA EASILY BIODEGRADABLE

+ 30°C
+ 5°C
Spray 500ml - 2L5

APPLICATION VIDEO

- Use on fenders, sponsons (PVC or Hypalon), hulls, decks and paint.
- Effortlessly restores the look of the surface in minutes.





OWACLEAN*

CLEANS HULLS AND DECKS

+ 30°C
+ 5°C
1L

APPLICATION VIDEO

- Regular maintenance of gelcoats, anti-slip decks, paint, stainless steel, etc.
- Degreases and removes dirt marks in minutes.
- Concentrated formula to be diluted.



* Hazardous - Follow the safety instructions. (1) Test OCDE 301 F.

DIFFERENT METALS

Ferrous metals and ferrous alloys

Iron (pure metal): Excellent mechanical resistance but more sensitive to rust.

Steel: Iron and carbon alloy that rusts when it comes into contact with air and water.

How to strengthen steel against rust?

- ***Hot-dip galvanisation = galvanised steel***

  Rule: Hot-dip galvanisation consists of immersing the pieces of steel in a bath of molten zinc to generate a protective coating against the corrosion of the steel. This coating of zinc is metallurgically bonded to the steel below because a metallic diffusion reaction is produced between the iron and the zinc.

  The hot-dip galvanisation procedure consists of 8 steps:

  Cleaned to remove dirt and grease, rinse, stripped to eliminate calamine and other oxides, rinse, flux bath to avoid the steel oxidising again before going into the zinc bath, cooling and inspection, zinc bath and drying oven.

  Cold-dip galvanisation does not exist. Term used for aerosol paints, which contain a solvent with aluminium or zinc powder in very limited qualities. With this system, there is no intermetallic creation (reaction, mixing) between the iron and the zinc. No shock or abrasion resistance.

- ***Stainless steel = Inox.*** Steel + chrome additive to form a protective coating making it impervious to rust. Spots of rust appear on stainless steel in particularly aggressive (marine) environments, on pieces such as turnbuckles, mooring cleats, handrails, balconies, rail stanchions, etc.

- ***Steel with improved resistance to atmospheric corrosion (CORTEN, INDATEN, DIWETEN).***

  «ANFOR standard definition below (EN 10025-5 :2005) «Steel where a number of alloys, such as phosphorus, copper, chrome-nickel have been added in order to increase resistance to atmospheric corrosion by forming a self-protective coating of oxide on the base metal which is subject to the atmospheric conditions.» Also called weathering steel.

  Corten steel is a weathering steel with deliberate surface corrosion where the appearance changes overtime. Oxidation of corten steel can create rust streaks. It is recommended to apply an anti-rust to seal the rust and stop oxidation.»

Cast iron: Iron alloy strengthened by a high amount of carbon. It has more carbon than iron and therefore higher quality. However cast iron is porous (boat keels).


Iron

Steel


Galvanised Metal


Stainless Steel


Cast Iron

Non ferrous metals

Higher quality because they do not contain iron.

Copper: Often alloyed with tin (bronze) or with zinc nickel (brass) to increase strength. Problem of verdigris.

Aluminium: Light but resistant (boat masts and hulls...). it can oxidise if it is not treated (white rust)

Technique for further strengthening:

- ***Anodising=anodised aluminium:*** surface treatment (chrome plating) to protect the aluminium from corrosion and wear and tear while giving it a decorative appearance (shiny).

  The thickness of the chrome plating will be decided based on what the final product is intended for.

  Warning: if too powerful a cleaner is used, there is a risk of partially removing the anodic film. However if no cleaning is done, deposits formed by chemical attack deteriorate the protective film (appearance of spots/cracks/white rust).

Zinc: Used on a certain number of alloys (brass). It can be applied to the surface of other metals such as galvanised steel.

Lead: It rusts with light grey patina (white rust), brass... It can become dull over time.

Chrome : Transition metal. It is a hard metal, in a silver grey steel colour which resists corrosion and dulling. Used as an alloy (stainless steel), in cladding (anodic aluminium). Improves corrosion resistance and provides a glossy finish.


Copper patina verdigris

Aluminium


Zinc

Lead


Chrome

Copper alloys

Bronze : Copper + tin alloy. Good resistance to wear and tear. Good electrical conductivity. Often used as a anti-abrasion material for steel. Main problem: Medium resistance to corrosion because of verdigris.

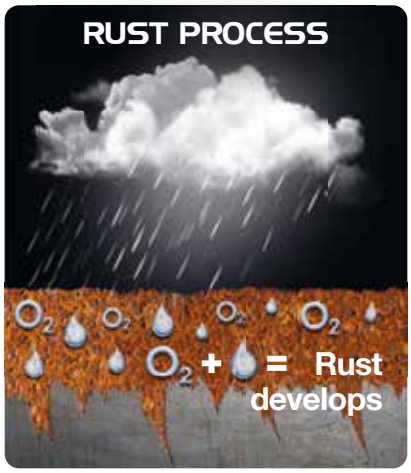
Chrome-plated bronze: Bronze harder than copper to resist wear and tear.

Brass: Alloy + zinc + nickel to prevent corrosion. Main problem: Medium resistance to corrosion because of verdigris. Brass is harder than copper and easy to machine (decoration, brass plates in medicine, faucets, etc.).

Bronze


Chrome-plated bronze

Brass



WHAT IS RUST?

Oxygen and water cause a chemical reaction to certain elements of iron and this combination promotes the development of iron oxide (red brown): rust or ferric oxide. This slow and ongoing reaction, called corrosion, is over time going to get into the metal and eat away at it.
If oxygen is the main cause of this degradation, moisture / humidity accelerates it.
Salt water accelerates corrosion because it increases the likelihood of contact between hydroxide ions and the iron, this is why we speak about water that is more conductive than fresh water. This also occurs with the majority of acids which act in the same way.
White or green rust:
Copper and its alloys (bronze, brass), when in contact with the air and moisture undergo the same process as iron: they are also affected by rust but not the brown/red kind, but rather green rust, called verdigris.
Lead, aluminium and zinc oxidise with light grey patina called white rust.
In salt water environments for example, stainless steel can develop rust spots over time.

THE WIDE RANGE OF SOLUTIONS FOR DEALING WITH RUST

WITH CHEMICAL ACTION		WITHOUT CHEMICAL ACTION
REMOVE IT	**THE TRANSFORMER**	**STOP AND SEAL IT**
Phosphoric acid rust destroyer. See OWAPHOS* page 35	Transforms and converts iron oxide into a blackish film that can crack and allow the rust to start again.	**In depth treatment that completely stabilises the rust over time** See OWATROL® OIL* philosophy page 35
Destroyer and transformer: surface treatments that don't get to the bottom of the problem.		

INDOOR AND OUTDOOR METAL

PRIMERS FOR STOPPING AND SEALING RUST			STOP RUST SPOTS	ANTICO FINISHES	ELIMINATES RUST SPOTS AND STREAKS
RUST-FREE SUBSTRATE	**SUBSTRATE WITH LITTLE RUST**	**HEAVILY RUSTED SUBSTRATES**	**NON-FERROUS METALS**		**NON-FERROUS METALS**
Can be over coated with one or two pack finishes. Oil or acrylic based paints PID 60* **Can be over coated with a single pack oil-based paint** AP 60*	**Can be over coated with one or two pack finishes. Oil or acrylic based paints** PID 60* **Can be over coated with a single pack oil-based paint** AP 60* OWATROL® OIL*	**Can be over coated with one or two pack finishes. Oil or water-based** PID 60* + 10% OWATROL® OIL* CIP* (except for water based) **Can be over coated with one pack solvent finishes** OWATROL® OIL* RUSTOL CIP*	**For all finishes Can be applied by brush, roller or spray** PID 60*	**After Owatrol® Oil, AP 60, PID 60** RUSTOL DECO* RA85* (ALU) OWAGRIP* PID 60* (in 2 coats)	OWAPHOS* **Mechanical method with steel wool 000** POLYTROL®*

PRO TIPS — Basic rules for preparing a substrate before anti-corossion primer

Always work with a prepared substrate that's been degreased, and is dry and clean (free of all residue from brushing/sanding).

Phosphating ➜ Passivate a substrate. Definition:

True chemical sanding that eliminates rust and modifies the surface of the metal to add:
- Optimal adhesion of the finish to smooth substrates like galvanised metal, aluminium but also on steel.
- Improved anti-corrosion resistance for painted metals.
- Ease in the operating procedure: gets rid of annoying preparation procedures such as power sanding.
- Depending on its composition the phosphate coating can have degreasing action as is the case with OWAPHOS*. Always rinse well.

Cleaning the surface. Solutions:

Ferrous substrates such as steel, cast iron:
- ➜ With an organic solvent such as acetone, methylated spirits. Solution without rinsing.
- ➜ Either with a degreasing phosphate such as OWAPHOS*. Rinse well.

Non ferrous metal substrate such as aluminium, galvanised metal, stainless steel, zinc, etc. :
- ➜ With a phosphating degreaser such as OWAPHOS* if the substrate is new and non-porous. Rinse well.

Note that after using a phosphate coating, cover the substrate over with an anti-corrosion primer within the 8 hours to avoid rust spots.

* Hazardous - Follow the safety instructions.

Prepare the substrate before applying our anti-corrosion primers:

Rusted substrate:

➜ **Option 1 :** Use the firm, sound rust to stabilise it. OWATROL OIL* philosophy:
- Brush the loose and unstable rust. Thoroughly remove any residue.
- Then degrease the substrate either with acetone (rinse free formula) or PURA-TROL* (rinse well).

➜ **Option 2 :** Remove the rust: PID 60* philosophy
- Phosphate coating / degreaser / rust destroyer: OWAPHOS* (rinse well).

or
- Preserve the substrate in that state if there is not too much rust.
- Degrease the substrate with acetone or with PURA-TROL* (rinse well)..
- Add 10% OWATROL® OIL* to PID 60*.

Rust-free substrate:

➜ **Non ferrous metal:** Phosphate/degrease with OWAPHOS*. Rinse well.

➜ **Ferrous metal:** Lightly sand using 60-120 grit. Degrease with acetone (without rinsing) or with PURA-TROL* (rinse well).

or • Phosphate if metal is new and non-porous. Rinse well. Cover over within 8 hours.

PRO TIPS

Effective drying conditions for oxygenation

The drying time varies depending on 3 parameters:

1 - A well ventilated work area: So that drying gets under way (oxygen and drying) the solvents must evaporate. If the room is not correctly ventilated, there will be too much solvent in the air and thus a lack of oxygen on the surface ➜ delayed drying.

2 - An ideal relative humidity of between 50 and 60%. If there is too much humidity, it will be difficult for the solvent to evaporate and condensation will form on the surface. There will be a lack of oxygen ➜ delayed drying.

3 - An ambient temperature ideally between 10 and 25°C. If the temperature is too low the solvent will evaporate too slowly ➜ delayed drying.

If one of these 3 conditions is not met, the drying time will be increased with the risk of a 'wavy' finish (finish adherence problem).

OWAPHOS*

RUST REMOVER, PHOSPHATE, DEGREASER

Multi-purpose to be used diluted or undiluted according to the intended purpose

10-12 m²/l | + 30°C + 5°C | 1L - 5L

- Rust destroyer: eliminates rust, white rust, traces of rust on stainless steel, paint, effortlessly breaks down limescale.
- Phosphate, cleans and degrease ferrous metals and the non ferrous ones such as galvanised metal, aluminium, etc.
- Always rinse off thoroughly.
- On ferrous and non ferrous metals, coat with an anti-corrosion primer like PID 60* within 8 hours.

* Hazardous - Follow the safety instructions.

FERROUS METALS iron, cast iron, steel...	NEW SURFACE**	PITTED OR SLIGHTLY RUSTY SURFACE	VERY RUSTY SURFACE	SURFACE COVERED WITH A PAINT IN POOR CONDITION
COLOURED FINISH WITH A SINGLE PACK PAINT	**1. Degreaser:** methylated spirit **2. Protection /decoration:** Matt appearance: Primer + finish: PRIMER AP.60 Or Gloss appearance: Primer: PRIMER AP.60 + Finish: RUSTOL DECO / RA.85	**DIRECTLY ON RUST** **Protection /decoration:** Matt appearance: Primer + finish: PRIMER AP.60 Or Gloss appearance: Primer: PRIMER AP.60 + Finish: RUSTOL DECO / RA.85	**1. Metal brushing** + OWATROL® OIL **2. Protection /decoration:** Matt appearance: PRIMER AP.60 Or Gloss appearance: RUSTOL DECO / RA.85	**1. Strip** with DILUNETT® **2. Protection /decoration:** Matt appearance: Primer + finish: PRIMER AP.60 Or Gloss appearance: Primer: PRIMER AP.60 + Finish: RUSTOL DECO / RA.85
COLOURED FINISH WITH A TWO PACK PAINT*	**1. Degreaser:** methylated spirit **2. Primer:** OWATROL® C.I.P. **3. Protection / decoration:** Epoxy, polyurethane, chlorinated rubber, antifouling, coating, primer...	**1. Primer:** OWATROL® C.I.P. **2. Protection / decoration:** Epoxy, polyurethane, chlorinated rubber, antifouling, coating, primer...	**1. Metal brushing** **2. Primer:** OWATROL® C.I.P. (2 thin coats) **3. Protection / decoration:** Epoxy, polyurethane, chlorinated rubber, antifouling, coating, primer...	**1. Strip** with DILUNETT® **2. Primer:** OWATROL® C.I.P. **3. Protection / decoration:** Epoxy, polyurethane, chlorinated rubber, antifouling, coating, primer...
NATURAL RUST FINISH	**1. Make the surface rusty:** (consult us) **2. Protection /decoration:** Satin-matt appearance: OWATROL® OIL Or Gloss appearance: OWATROL® OIL + OXID VERNIS GLOSS	**1. Make the surface rusty:** (consult us) **2. Protection /decoration:** Satin-matt appearance: OWATROL® OIL Or Gloss appearance: OWATROL® OIL + OXID VERNIS GLOSS	**1. Metal brushing** **2. Make the surface rusty:** (consult us) **3. Protection /decoration:** Satin-matt appearance: OWATROL® OIL Or Gloss appearance: OWATROL® OIL + OXID VERNIS GLOSS	

The above is meant as a guide only - Please refer to the product packaging or the product Technical Data Sheet for full application instructions.
* On Aluminium or for 2 pack finishes, use the appropriate remover.
** If the surface is coated with carbon (calamine) deposits this can turn to rust if left untreated. Treat as for pitted or slightly rusted surface.

OWATROL® OIL*

COLOURLESS MULTI-PURPOSE RUST INHIBITOR

± 18 m²/l per coat | + 30°C + 5°C | Spray 300ml - 0L5 - 1 L 5 L - 20 L - 200 L

Penetrating and isolating rust inhibitor direct to rust

- Penetrates to the healthy metal below while driving out air and moisture.
- Forms a protective, isolating and flexible film. Resistant up to + 175°C.

Additive for oil-based paints, varnishes and stains

- Dilution: 25 % per litre in first coat or 50 % if the surface is smooth or porous.
- Makes oil-based paints, varnishes and stains rust inhibiting.
- Eases application.
- Replaces thinners: does not evaporate.
- Increases the covering power of the finishing coats.

Keying primer for all surfaces

- Use neat for the first coat.
- Adheres to all smooth surfaces: glass, PVC, ferrous metals and other metals, etc.
- Aluminium, galvanised steel and zinc can be coated without pickling.

Decorative appearance

- Preserves the rust appearance of the surface while protecting it.

* Hazardous - Follow the safety instructions.

OXID VERNIS*

CLEAR METAL VARNISH INTERIOR/EXTERIOR

± 18 m²/l per coat | + 30°C + 10°C | 0L75 - 2L5

- Decorates, protects, weatherproofs - High UV resistance.
- Retains the natural appearance of the surface.
- Easy application.
- High resistance to extreme conditions, saltwater, fog, rain...
- New or oxidised surfaces
- Ferrous and non-ferrous metals.
- Furniture, Gates, Ornaments....
- Available in three finishes - Gloss, Satin, Matt (interior only).

MATT SATIN GLOSS

OWATROL® C.I.P.*

PRIMER FOR "EXTREME CONDITIONS"

Re-coat with any one or two pack finish.

± 15 m²/l per coat | + 30°C + 5°C | 0L75 - 2L5 - 20L

- One pack reddish-brown anti-rust primer for rusted substrates.
- Applied directly to the stabilised rust, without any prior sanding.
- Multi-purpose:
  1. Impregnates and penetrates down to the unaffected metal. Fills in small holes.
  2. Isolates: Dramatically stops rust and stabilises the substrate for a subsequent finish.
  3. Strengthened protection: active pigments + solid flexible coating to avoid the risk of cracking.
  4. Adheres and clings to all metal substrates.
- Perfect for difficult atmospheric conditions (corrosive gases, coastal environment, etc.).
- Can be applied on lightly or heavily oxidised, semi-immersed or immersed substrates (application of a suitable finish required).
- If it is a two pack finish, let OWATROL C.I.P* dry for at least 6 days (temperature 20°C and 50% RH) before coating.
- Temperature resistant up to 175°C.

* Hazardous - Follow the safety instructions.

PRIMER AP.60*

ANTI-CORROSIVE MATT PAINT

Primer and finish

16-20 m²/l per coat | + 30°C + 5°C | 0L75 - 2L5 - 20L

- Primer and topcoat - Stops and stabilises rust.
- All surfaces - Direct to rust, slightly oxidised metals, PVC, wood, etc.
- Flexible film - Will not peel or flake. Anti-UV protection.
- Temperature resistant up to + 175°C.
- Can be overcoated with any single pack oil/alkyd based paint (glycerophtalic, alkyd-urethanes...).
- Available in:

WHITE | GREY | BLACK | BRICK RED

RUSTOL DECO*

DECORATIVE GLOSS PAINT

Primer and finish

12-15 m²/l per coat | + 30°C + 5°C | 0L75 - 2L5 - 20L**

- Rust inhibiting undercoat and topcoat for all surfaces.
- Possesses the properties of OWATROL® OIL: Apply direct to rusted surfaces.
- Flexible - Will not peel or flake - Resistant up to + 175°C.
- Available in (according to conditioning):

RAL 9010 *PURE*	RAL 7037 *GREY*	RAL 7040 *GREY*	RAL 9005 *BLACK*	RAL 5002 *BLUE*	RAL 6009 *GREEN*	RAL 6005 *GREEN*	RAL 3001 *DEEP RED*	RAL 8028 *BROWN*	RAL 1007 *YELLOW*

+ 3 bases to be tinted in Matt, Satin and Gloss:

PASTEL BASE | MIDDLETONE | DEEP TONE

**Only available for Gloss finish, other finishes under demand.

* Hazardous - Follow the safety instructions.

PID 60*

MULTI-SURFACE ANTI-RUST PRIMER AND FINISH DRY IN 60 MIN.

Can be coated with one or two pack finishes

10-13 m²/l per coat | + 25°C + 10°C | 1L - 2L5 - 20L

- Multi-purpose medium grey:
  - ⇨ Anti-rust primer rich in anti-corrosive agents.
  - ⇨ One pack adhering sub-coat (aluminium, galvanised metal, polyester, etc.).
  - ⇨ Thick coat to fill in metal's rough surface.
  - ⇨ 3 coat finish.
- Can be coated with all one and two pack finishes including PU and epoxy (give 6 hours for drying before coating).
- Can be applied onto all surfaces without major dimensional variation: steel, aluminium, fibre cement, concrete, sheet metal, galvanised metal, boat gelcoats, etc. but also on old paint (sand for two pack finishes).
- Ideal for substrates that are in good condition and rust free. On mildly or moderately rusted substrates, add 10% OWATROL® OIL* (longer drying time).
- Increased adhesion on smooth substrates such as aluminium, zinc and galvanised metal.
- Easy to sand. Can be used indoors and outdoors.
- Other uses: metal frames and all uses needing fast drying and which can be handled shortly after (60 minutes).
- Can be applied on site or in an industrial environment (spray gun, automated production line).
- Can be applied using an electrostatic process: Contact us.

MEDIUM GREY

WHAT TECHNOLOGY SHOULD YOU CHOOSE?

Rusted substrate.	Unrusted substrate or one with little rust.
Can be coated with a solvent-based finish.	Can be over coated by all types of finishes including two pack (epoxy), water based etc.
If the period of time for over coating is not important: between 24 and 72 hours.	If the period of over coating time is important: between 2 and 6 hours.
OWATROL®* TECHNOLOGY	**PID 60* TECHNOLOGY**

* Hazardous - Follow the safety instructions.

OWATROL® RA.85*

ALUMINIUM GLOSS PAINT FINISH

Metal, pvc, wood

± 18 m²/l per coat | + 30°C + 5°C | 0L75 - 2L5 - 20L

- Isolating, anti corrosive topcoat that stops and stabilises rust.
- Based on OWATROL® OIL: compatible with all surfaces.
- Excellent film-forming quality (adhesion, flexibility and even film build that does not peel or flake).
- Resistant up to + 175°C.



TRANSYL®*

MULTI-PURPOSE PENETRATING OIL – LUBRICANT

Professional quality

Spray Lock 400ml - 1L - 5L - 20L - 200L

- Reaches the most inaccessible places.
- Works when cold - 30°C to + 50°C.
- Lubricates and releases parts seized with rust.
- Leaves a lubricating film.
- Dissolves dirty oil, removes multiple residues, breaks up rust.
- Facilitates machining: avoids the fixing of swarf.



* Hazardous - Follow the safety instructions.

Mechanical solutions

POLYTROL®*

RESTORES COLOUR ELIMINATES STREAKS AND RUST SPOTS

Plastic, metal, stone...

± 18 m²/l | + 30°C + 5°C | Spray 250ml 0L5 - 1L - 20L

RUSTOL-OWATROL® OIL TECHNOLOGY

WHY DO COLOURED SUBSTRATES FADE?
WHY DO THEY BECOME LACKLUSTRE?

Weathering and U.V. rays affect the substrate over time.

What solutions are there?

1- Polishing the surface:
Abrasive (mechanical) action that eliminates the substrate's altered surface coat.
or

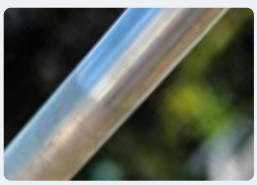
2 - POLYTROL®* :
Without any chemical action.
Also used on gelcoats, PVC, marble, paint film, floor tiles, polished metals and chrome...

- Restores the colour and appearance of the plastics, tarnished gelcoats and old paint.
- Restores lustre and ensures the protection of polished metals (bronze, copper, stainless steel, brass, etc.) as well as chrome and anodic metals (aluminium on bay windows, verandas, etc.). Revitalises marble, tiling, floor tiles, etc.






PRO TIPS — Eliminate rust spots on stainless steel, aluminium oxide on aluminium

1. Put POLYTROL®* on 000 steel wool.
2. Scrub to eliminate spots. Finish operation with a clean cloth.
3. Apply POLYTROL®* again on to the restored finish in order to make the substrate shine.

APPLICATION VIDEO

Chemical solutions

Chemically remove all rust spots and streaks on gelcoats, paint, stainless steel, etc.

- Rust streaks: NET-TROL®* or OWAPHOS*.
- Spots, traces of rust: OWAPHOS*.

* Hazardous - Follow the safety instructions.

VC175*

MOULD KILLER

Stops mould growth

+ 30°C
+ 5°C
50ml

WATER BASED

- Add VC175 Mould Killer to paint, mortar, grout or adhesives and surfaces will stay like new.
- Powerful and long lasting mould and algae killer.
- Inexpensive paint additive which gives long term protection from mould and is suitable for most paints.

E.S.P.*

ENABLES THE KEYING OF PAINTS, VARNISHES...

On all smooth/shiny surfaces

± 18 m²/l per coat
+ 30°C
+ 5°C
1L

WATER BASED

- Ideal for: tiles, melamine, glass, PVC, paint, varnish,etc.
- Avoids sanding and stripping, etc.
- Colourless, does not conceal the surface.
- Odourless.
- Does not attack the existing base or old coating.

PURA-TROL*

MULTI-PURPOSE CONCENTRATED CLEANER

Cleans, degreases equipment, buildings, leisure...

WATER BASED

1L=20L diluted product
+ 25°C
+ 10°C
1L - 20L

FORMULA EASILY BIODEGRADABLE(1)

- Multi-purpose, highly effective concentrated cleaner for use on equipment, engines, vehicles, facades, floors…
- Easy to use PURA-TROL is suitable for use on concrete, glass fibre, bricks, plastic, metals, Prodema plaques…
- Concentrated formula for fast results with minimal effort and no scrubbing. Non-aggressive to metals and other materials.
- PURA-TROL is easily applied by brush, sponge or pump sprayer.
- Leaves no residue or smears after rinsing.
- PURA-TROL is solvent and acid free.

* Hazardous - Follow the safety instructions. (1) Test OCDE 301 F.

FLOETROL®*

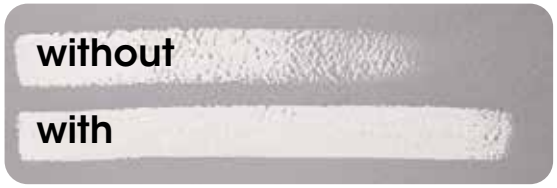
AVOIDS BRUSH MARKS IN HOT OR WINDY WEATHER

Improves flow of water-based paints

+ 30°C
+ 5°C
1L - 2L5 - 10L

WATER BASED

- Additive for water-based paints.
- Eases application: enables a ceiling to be painted effortlessly.
- Improves flow characteristics.
- Lubricates spray nozzles during application.
- Ideal for ceilings, walls, facades...
- Ideal for special effects, including acrylic pouring.



OWATROL® E-B*

FIXES CHALKY, POROUS AND UNSTABLE SURFACES

Reduces the risk of flaking

± 6 m²/l
used neat
+ 30°C
+ 5°C
1L - 2L5 - 10L

WATER BASED

- Additive for water-based paints.
- Blocks and isolates the surface from various stains/traces of water, soot, smoke (ceiling).
- Isolates traces of tannin. Enables oak beams to be painted.
- Avoids the oxidation of non-ferrous metals (copper), prevents the development of verdigris.
- Improves the opacity of white with moderate covering power.
- Saves time: replaces separate stabilising primer.

* Hazardous - Follow the safety instructions.

H4 WOOD & STONE

NEXT GENERATION WATER-REPELLENTS

White stones, Tiling, Cement, Plaster, etc.

3-6 m²/l per coat | + 30°C + 5°C | 1L - 2L5 - 10L | WATER BASED

- Colourless water-repellent protection guarantees waterproofing of porous mineral materials.
- Limits dirt and greasy air pollution deposits.
- Deeply penetrates the substrate to protect without forming a film.
- Improves self-washing of substrate. Preserves original appearance and colour.
- Silicone free.
- Can be over coated with any type of coating after a short ageing period.
- Can be used as an additive to hold the hydrophobia of water based paints in check (20% according to the type of coating). It can over coat a saturator to extend its life.

PRIMALL*

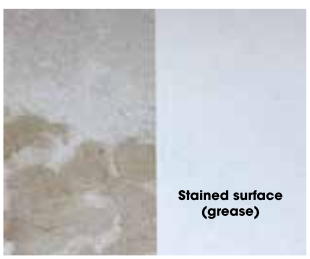
BLOCKING PRIMER

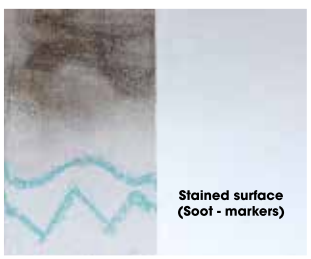
Primes difficult surfaces, blocking unknown stains

10 m²/l per coat | + 30°C + 5°C | Spray 300ml - 1L - 2L5 - 10L

- Blocks and hides grease stains, water damage, nicotine stains, pencil / crayon / felt pen marks, rust stains, smoke damage, food stains (ketchup, mayonnaise, mustard...).
- Prevents stains from bleeding into the finish coat.
- Stabilises porous surfaces, preventing shadowing on the finish coat.
- Adheres to surfaces without the need to sand:
  Smooth surfaces: Aluminium, galvanied metal, PVC, plastic, varnish, ceramic tiles...
  Porous surfaces: Plaster, cardboard, cement, brick, cinder blocks, wood, old coatings, copper, steel...
- Stabilises chalky surfaces. Increases performance and makes it easier to apply the finish.
- May be used as an anti-corrosive primer on light surface rust.


Smooth surfaces (aluminium, glass, PVC...)


Stained surface (grease)


Stained surface (Soot - markers)

* Hazardous - Follow the safety instructions.

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Our corporate approach to environmental responsibility:

- Development of increasingly responsible formulas (integration of biobased or recycled raw materials, biodegradable formulations).
- Management and processing of waste products.
- Use of recyclable packaging.
- Encouraging eco-actions.

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