Revised: April 2006

Printed February 08	**OWATROL OIL** **Paint Conditioner & Rust Inhibitor** **Technical Data Sheet**	

Description
Owatrol Oil is a versatile highly penetrating air drying oil that can be used alone or added to paint, primers, varnishes or stains. Used alone it provides a tough, flexible finish, driving out moisture and air and displacing it from rusted metal, so stopping rust; filling dry porous wood to stop paint peeling. Added to any oil or alkyd based coatings and it will give increased wet edge, improved flow ability, eliminating laps, brush marks, orange peel etc, greater adhesion, promoting uniform film thickness and drying and unlike damaging thinners will maintain the inherent quality of the paint without affecting its appearance or drying times

Where to use Owatrol Oil
Owatrol Oil may be used in any oil/alkyd-based paint, varnish, primers or stains to ease application in difficult climatic conditions; neat on bare wood, which is dry and porous or has become soft and punky, to displace excess moisture and air. It is ideal for rusted surfaces, cutting down on expensive preparation time.

TECHNICAL DATA

Finish:	N/A
Freeze Thaw:	N/A
Shelf Life:	20 years unopened
VOC:	Does not exceed 485gms/ltr
Flash Point:	63°C
Temperature Application:	$5^{o}C – 35^{o}C$

Coverage
Coverage will vary depending on texture and porosity of the surface
When added to paint, approximately 20% less material will be used than if the paint had been applied without Owatrol Oil
Used neat on:-
Smooth wood up to $8m^2$ per litre
Rough Sawn wood up to $5m^2$ per litre
Rusted Surfaces 8 – $12m^2$ per litre when an even sheen is achieved

Drying Time
Neat on wood - Allow overnight drying
Neat on steel - Allow 24 hours drying time
As per the times on the can when mixed with paint

Application Method
Brush, roller, garden sprayer, airless or conventional (cup-gun) sprayer (tip size and pressure as per paint manufacturers guidelines)
Apply in dry weather conditions when using in paints on exterior work
Do not apply if wet weather is expected within 24 hours when using in paints on exterior work
Best results with primers used on wood, are achieved by mixing 1 part Owatrol Oil to 2 parts primer

Limitations
Do not mix or overcoat Owatrol Oil with paints containing “hot solvents” i.e. Xylene or two part coatings
Owatrol is compatible in all paint, stains, varnishes and primers where clean up is specified as white spirit

Sizes
500ml, 1ltr, 5ltr and 20ltr

Clean Up
Clean all tools and equipment with white spirit whilst still wet
Any rags soaked in Owatrol Oil should be dipped in water before disposing with household waste
If can is less than 2/3rds full, transfer leftover Owatrol Oil to a smaller, closed metal or glass container to prevent gelling
Store and maintain equipment as directed by manufacturer

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PAINT CONDITIONER

A paint conditioner is an ingredient added to paint when surface or weather conditions prevent the paint from performing as it was formulated to. Paint manufacturers sell paint every day of the year and must therefore formulate their paint to work at an average temperature; any deviance from this necessitates adjusting the paint.

Paint, when used under the right conditions, with the proper surface preparation and according to label instructions, performs as designed. Often surface conditions such as high porosity or weather conditions such as hot or cold temperatures, low humidity etc. challenge this performance. The thinners in an oil-based paint will evaporate in hot dry weather causing it to drag; alternatively in cold weather the paint will turn sluggish, thereby making it difficult to apply a smooth even coat. When the surface is very dry and porous it will suck the thinners from the paint, causing improper film formation and subsequent premature failure of the coating.

Owatrol Oil when added to paint helps overcome these problems, by giving increased wet edge in hot conditions and easing application in cold conditions. Owatrol Oil has high penetrating qualities, being three times wetter than water; makes it ideal for dry and porous substrates. Whether used alone or mixed with a primer, its penetrating qualities take it deep into the wood, filling the woods pores, driving out any excess moisture and air, thereby aiding adhesion and allowing a proper paint film to develop, preventing premature failure of any subsequent coats.

Directions for use:

SURFACE PREPARATION

Prepare surface as per instructions on the paint can
Remove all loose and flaking material
Treat any organic growth with fungicidal solution or a mix of 1 part water to 1 part bleach, rinse thoroughly and allow to dry

APPLICATION

Apply paint in normal manner
If paint is sticky, drags, sets up to fast or does not level properly add Owatrol Oil (stirring in well) until the paint works smoothly, easily and evenly. Allow the brush, roller or sprayer to be your guide

Mixing Instructions

Topcoat:	Add between 5% – 20% by volume of Owatrol Oil/Ltr of paint
Undercoat:	Add **up to** 30% by volume of Owatrol Oil/Ltr of paint
Primer:	Add **up to** 50% by volume of Owatrol Oil/Ltr of paint

The above is meant as a guide only. Conditions of application, porosity of surface etc. will dictate the amount of Owatrol Oil to be mixed into the paint

Wood Surfaces In Sound Condition

Stir paint thoroughly
Spot prime any bare wood with a mix of 1 part Owatrol Oil to 2 parts primer and apply in normal manner
Follow with normal paint system adding Owatrol Oil as in Mixing Instructions above to ease application

Wood Surfaces In Soft Punky Condition

Apply two to four liberal coats of Owatrol Oil as fast as the wood can absorb them
Do not allow Owatrol Oil to dry between applications
When the wood cannot absorb any more wipe up any excess and allow overnight drying
Follow with normal paint system adding Owatrol Oil as in Mixing Instructions above to ease application

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RUST INHIBITOR

Rusty iron and steel surfaces have a spongy, scaly layer of iron oxide, the result of electrolytic action, which has destroyed the true substance of the metal. This highly absorptive surface soaks up and traps corrosive liquids, moisture and air, which constantly eat deeper and deeper into the raw, exposed metal.

Owatrol Oil wets with great rapidity any surfaces to which it is applied. This wetting action spreads in all directions, especially downward. Its exceptional power of penetration carries it into, through, and around the deepest and most finely granulated forms of rust. Owatrol Oil displaces air and moisture and incorporates the rust into a waterproof protective coating – an ideal foundation for paint.

Steel surfaces vary from clean or slightly rusted to pitted and severely rusted. Metal primers (like wood primers) are formulated for clean surfaces and cannot be expected to perform as well on rusty steel. Owatrol Oil should always be added to metal primers to ensure that porous rust is sealed to the base metal. On surfaces inaccessible to brush or roller, Owatrol Oil can be sprayed or "flowed" into these areas to greatly reduce additional rust formation.

Owatrol Oil can be used alone to protect iron and steel from further rusting for many months and need not be removed, as it forms an ideal surface for the primer to bond to when the time comes to paint

Directions for use:

SURFACE PREPARATION

Surfaces must be clean, dry and free from oil grease and other surface contamination
Remove all loose rust, rust scale, loose and blistered paint using a wire brush or scraper
Feather in all sharp paint edges
Do not remove firm rust
Do not clean back to a bright finish

APPLICATION

Old Rusted Steel

Saturate rust with Owatrol Oil or a mixture of 1 part Owatrol Oil to 1 part Primer
Saturation is indicated by a uniform glossy appearance
Before this has hardened, check surfaces and remove rust scale and old paint loosened by the above
If needed, touch up areas where rust scale or old paint has been removed
Allow 24 hours for drying and follow with normal paint system adding Owatrol Oil if necessary to ease application
Note Owatrol will not lift well-bonded paint

Iron & Steel Surfaces Covered With Light or Spot Rust

Mix one part Owatrol to two parts primer to increase penetration, which is necessary to stop rust action
Allow to dry overnight
Follow with normal paint system adding Owatrol Oil if necessary to ease application

New Unpainted Rusty Steel

Saturate rust with Owatrol Oil or a mixture of 1 part Owatrol Oil to 1 part Primer
Saturation is indicated by a uniform glossy appearance
Before this has hardened, check surfaces and remove any loose rust scale that may have been missed during the cleaning operation
If possible touch up areas where rust scale has been removed
Allow 24 hours for drying and follow with normal paint system adding Owatrol Oil if necessary to ease application

Clean Steel i.e. pickled stock or new steel sandblasted to remove mill scale and is not rusty

Apply a mixture of 1 part Owatrol Oil to 3 parts Primer
Allow over night drying
Follow with normal paint system adding Owatrol Oil if necessary to ease application

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Good Application Practice
Cover everything you do not wish to paint

Health and Safety
Material Safety Data Sheets for this and all other Owatrol/Flood products are freely available from the place of purchase or the address below. Store in secure dry conditions inaccessible to children and animals. Containers should be kept closed during storage. Do not empty into drains, watercourses or access routes to septic tanks.

Availability
Owatrol Oil is available through quality paint stores

For further information please contact the address below