

## Rust Remover

### PRODUCT DESCRIPTION

A single component, water-based rust remover / cleaner gel. Interplus 4101 Clean Gel is 100% biological degradable and free from toxins.

Interplus 4101 Clean Gel conforms to the yellow classification of the Harmonised Offshore Chemical Notification Format (HOCNF).

### INTENDED USES

Interplus 4101 Clean Gel is designed to remove light to medium rust deposits from a variety of surfaces.

Suitable as a cleaning agent to remove rust stains in coated areas. Can be used as an alternative to traditional sandblasting, ultra-high pressure water blasting or power tool methods where these have been ruled out for operational, health and safety or environmental reasons.

Effective for removal of corrosion on stainless steel structures and aluminium.

### PRACTICAL INFORMATION FOR INTERPLUS 4101 CLEAN GEL

<b>Colour</b>	Yellow
<b>Gloss Level</b>	Not applicable
<b>Volume Solids</b>	Not applicable
<b>Typical Thickness</b>	400-500 microns wet film thickness
<b>Theoretical Coverage</b>	2m <sup>2</sup> when applying 500 microns
<b>Practical Coverage</b>	Allow appropriate loss factors
<b>Method of Application</b>	Airless Spray, Brush, Roller
<b>Drying Time</b>	Not applicable

### REGULATORY DATA

<b>Flash Point (Typical)</b>	61°C (142°F)
<b>Product Weight</b>	1.177 kg/l (9.8 lb/gal)
<b>VOC</b>	0 g/kg EU Solvent Emissions Directive (Council Directive 2010/75/EU)
See Product Characteristics section for further details	

## Protective Coatings

## Rust Remover

### SURFACE PREPARATION

Prior to application of Interplus 4101 Clean Gel, any loose rust deposits should be removed to aid penetration of the product. Surfaces not to be treated should be masked and protected with polyethylene. A strong ground sheet should be used to contain residue, product and rinse water. For further details, contact International Protective Coatings.

Galvanised surfaces can be affected by Interplus 4101 Clean Gel; these areas should be covered. Use of Interplus 4101 Clean Gel on GRP will cause discoloration of the surface.

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

### Test Patch

It is strongly recommended that a small test patch should always be carried out on a representative area in order to ascertain the optimum application thickness and activation time required to successfully remove the rust deposits. Activation times are very much dependent upon the in situ rust level and condition, however, a typical working time is within 12 to 24 hours.

Pure epoxy topcoats can experience white staining when using Interplus 4101 Clean Gel; please test a large enough area before use if this may be an issue.

### Application Conditions

Optimal working temperature range is 8 - 37°C (46 - 99°F). Interplus 4101 Clean Gel can be used at temperatures as low as 2°C (36°F) and a maximum of 60°C (140°F), but a lower level of performance should be expected.

For best results, it is advised to suitably cover the application area to reduce the effect of wind, rain and intense sunlight.

### APPLICATION

<b>Mixing</b>	Mixing should not normally be required but if separation has occurred the product should be hand mixed until homogeneous.	
<b>Mix Ratio</b>	Not applicable	
<b>Airless Spray</b>	Recommended	Apply through a 0.53-0.79 mm (21 to 31 thou) tip with a spray angle of between 65 and 80°. Pressure at spray tip should not exceed 105 kg/cm² (1500 p.s.i.). High pressures are not required to apply a uniform coat. See Product Characteristics.
<b>Brush</b>	Suitable - small areas only	Typically 200-300 microns (8.0-12.0 mils) can be achieved
<b>Roller</b>	Suitable - small areas only	Typically 200-300 microns (8.0-12.0 mils) can be achieved
<b>Thinner</b>	Not recommended	
<b>Cleaner</b>	Clean potable water	
<b>Work Stoppages</b>	Product containers should be resealed to prevent drying out of the product.	
<b>Clean Up</b>	Clean equipment immediately after use with water. Dispose of washing in accordance with local environmental legislation. Neutralising and dilution with water may be required to meet local waste or sewage disposal requirements. Spills should be contained and disposed of under the same requirements.	
<b>Removal</b>	High pressure water wash and/or steam cleaners improve removal rates and reduce water usage. Pressure greater than 4000 p.s.i. is advised for large areas and to aid removal of alkaline salts from steel substrates. Cleaned surfaces should be repainted as quickly as possible to prevent reoxidation.	

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### PRODUCT CHARACTERISTICS

Maximum film build in one coat is best attained by airless spray. When applying by methods other than airless spray, the required film build is unlikely to be achieved.

Typical working pressures for airless spray application are approximately 105kg/cm<sup>2</sup> (1500 p.s.i.). This allows both an even atomisation and film formation to be achieved. Excessive pressures should be avoided as this can lead to poor atomisation and film formation thus reducing product efficiency.

The removal rate of rust deposits is dependent upon the thickness and uniformity of Interplus 4101 Clean Gel. Repeat applications may be required for areas where the rust level is high.

Test patching is recommended to determine activation time and removal efficiency prior to full application.

When applying Interplus 4101 Clean Gel in confined spaces ensure adequate ventilation.

Treated areas should be wrapped in polyethylene where high temperature airflow or direct sunlight may cause drying out.

Treated surfaces should be overcoated as quickly as possible to prevent the onset of re-oxidation.

Interplus 4101 Clean Gel must be protected from freezing at all times during storage.

### SYSTEMS COMPATIBILITY

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To ensure good overcoating of approved maintenance primers, it is important that the treated surface is free from all residue contamination and a thorough rinsing and wash down has been undertaken.

The surface should be clean and dry prior to overcoating with approved primers.

The following primers are approved for application direct to Interplus 4101 Clean Gel treated surfaces:

- Interplus 356
- Interseal 670HS
- Interzone 954

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### ADDITIONAL INFORMATION

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available at [www.international-pc.com](http://www.international-pc.com):

- Definitions & Abbreviations
- Surface Preparation
- Paint Application
- Theoretical & Practical Coverage

Individual copies of these information sections are available upon request.

### SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Safety Data Sheet and the container(s), and should not be used without reference to the Safety Data Sheet (SDS).

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

For Health and Safety reasons this product must not be transferred out of its original packaging.

If in doubt regarding the suitability of use of this product, consult International Protective Coatings for further advice.

PACK SIZE	Unit Size	Vol	Pack
	25 litre	25 litre	25 litre
	1000 litre	1000 litre	1000 litre
For availability of other pack sizes, contact International Protective Coatings.			
SHIPPING WEIGHT (TYPICAL)	Unit Size		
	25 litre	30.53 kg	
	1000 litre	1240 kg	
STORAGE	Shelf Life	12 months at 20°C (68°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition. Protect from freezing at all times during storage.	

### Important Note

*The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.*

*This Technical Data Sheet is available on our website at [www.international-marine.com](http://www.international-marine.com) or [www.international-pc.com](http://www.international-pc.com), and should be the same as this document. Should there be any discrepancies between this document and the version of the Technical Data Sheet that appears on the website, then the version on the website will take precedence.*

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