Orapi Group

Founded in 1968, the Orapi group has since embarked on a remarkable industrial journey. Our four Research and Development Centres and seven Production Facilities around the world have enabled us to remain at the forefront of industrial advances and ensure that our customers always benefit from the latest technological breakthroughs.

Over the years, the Orapi Group has grown in harmony with its customers and has devoted itself to providing the highest levels of service and quality.

Having acquired the GRAMOS® brand in 2007, Orapi Applied Ltd. have become a key player in the market sector of Paint Shop Processes, offering a full range of specialist chemical solutions and dust control products to assist in the achievement of the optimal paint finish so often required by automotive OEM’s such as VW, Audi, BMW, Jaguar Landrover, Aston Martin, Fiat, Iveco, Toyota, Volvo, JCB and many more all over the world.

Our products are also extensively used in other Industrial Manufacturing sectors such as the Wind Turbine Industry, Kitchen and Furniture manufacturing, etc where high quality paint finishes are a critical requirement.

Our continued development of new products will ensure that we can continue to deliver new innovations to all these markets.
Dust, fibres and grit particles are a major source of paint defects causing nibs, rough finishes, imperfections and centres of weakness and corrosion.

**1 Dust What is it?**

Dust found within manufacturing processes have been known to contain small amounts of plant pollen, human and animal hairs, textile fibres, paper fibres, minerals from outdoor soil, human skin cells and many other materials which may be found in the local environment.

**2 Why control it?**

Dust, fibres and grit particles are a major source of paint defects causing nibs, rough finishes, imperfections and centres of weakness and corrosion.
Manufacturing in the UK GRAMOS® originally designed TAKrags® over 50 years ago, still providing unrivalled design quality today Orapi Applied Ltd is the leading manufacturer of GRAMOS® TAKrags® and dust contamination control products in Europe. Each day most car manufacturers and leading assembly plants throughout the world rely on GRAMOS® products and our leading technical knowledge.

Long experience has shown that TAKrags® are the only safe and economical method of ensuring completely dust-free surfaces onto which paint can be applied.

As well as being indispensable in vehicle body shops and paint shops TAKrags® have many beneficial applications in most industrial production finishing processes. With a multitude of woven, non-woven and knitted materials and a choice of tack strength, GRAMOS® have a TAKrag® to suit all applications.

With one quick wipe, TAKrags® ensure completely dust and fibre free surfaces. A surface ready for spraying, lettering and countless other jobs involving the application of paints, printing inks, lacquers, varnishes etc.

The impregnated resins that make TAKrags® tacky are manufactured solely by us for our own use. They are to our own formula and are chemically compatible with all modern paint finishes, non-acidic, non-drying, non-staining, not subject to spontaneous combustion and uniform in tack and quality.

This GRAMOS® quality continues within our range of TAK mats to control foot-borne contamination from entering or leaving protected zones and Barrier Curtain to control airborne dust within high risk areas.
**THE ORIGINAL TAKrag®**

**MEDIUM TACK**

The original TAKrag® is a general purpose TAKrag® used in any area for the removal of dust contamination. Different sizes and packaging are available to suit the individual and bulk user needs. Also available are larger sizes for maximum area coverage. The original TAKrag® is an ideal tool in the fight against contamination.

<table>
<thead>
<tr>
<th>Packaging</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 100</td>
<td>D3006-1X100</td>
<td>a roll</td>
</tr>
<tr>
<td>4 x 50</td>
<td>D3009-4X50</td>
<td>bulk pack</td>
</tr>
<tr>
<td>10 x 50</td>
<td>D3009-10X50</td>
<td>bulk pack</td>
</tr>
<tr>
<td>100 x 1</td>
<td>D3019-100X1</td>
<td>bleached individually wrapped</td>
</tr>
<tr>
<td>10 x 50</td>
<td>D3020-10X50</td>
<td>bleached bulk pack</td>
</tr>
<tr>
<td>20 x 10</td>
<td>D3023-20X10</td>
<td>individually wrapped</td>
</tr>
<tr>
<td>50 x 1</td>
<td>D3023-50X1</td>
<td>individually wrapped with dispenser</td>
</tr>
<tr>
<td>100 x 1</td>
<td>D3023-100X1</td>
<td>individually wrapped</td>
</tr>
<tr>
<td>20 x 10</td>
<td>D3023-20X10C</td>
<td>clamshell</td>
</tr>
</tbody>
</table>

**maxaTAK®**

**MEDIUM TACK, TEXTURED COTTON**

This is a large TAKrag® with superior dust holding capacity. It is made from textured cotton, which gives it its soft, high bulk nature. Ideal for large surface areas or high levels of dust.

<table>
<thead>
<tr>
<th>Packaging</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 x 1</td>
<td>D3033-25X1</td>
<td>individually wrapped</td>
</tr>
<tr>
<td>2 x 50</td>
<td>D3002-2X50</td>
<td>bulk pack</td>
</tr>
</tbody>
</table>

**THE ORIGINAL TAKrag® LIGHT**

**LIGHT TACK**

The original general purpose TAKrag® with a lighter resin content, used in any area for the removal of dust contamination. Different sizes and packaging are available to suit the individual and bulk user needs. Also available are larger sizes for maximum area coverage. The original TAKrag® is an ideal tool in the fight against contamination.

<table>
<thead>
<tr>
<th>Packaging</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 x 10</td>
<td>D3017-20X10</td>
<td>individually wrapped</td>
</tr>
<tr>
<td>10 x 50</td>
<td>D3017-10X50</td>
<td>bulk pack</td>
</tr>
<tr>
<td>20 x 10</td>
<td>D3017-20X10C</td>
<td>clamshell</td>
</tr>
<tr>
<td>50 x 1</td>
<td>D3017-50X1</td>
<td>individually wrapped with dispenser</td>
</tr>
</tbody>
</table>

**aquaTAK®**

**LIGHT-MEDIUM TACK**

aquaTAK® is made from a blue non-woven fabric which gives it a high snag resistant quality. Ideal for uneven surfaces and developed for use with water-based paint systems.

<table>
<thead>
<tr>
<th>Packaging</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 x 50</td>
<td>D3042-10X50</td>
<td>bulk pack</td>
</tr>
<tr>
<td>20 x 10</td>
<td>D3042-20X10</td>
<td>clamshell</td>
</tr>
<tr>
<td>10 x 50</td>
<td>D3032-10X50</td>
<td>bulk pack light tak</td>
</tr>
</tbody>
</table>

**ultraTAK®**

**LIGHT-MEDIUM TACK**

UltraTAK® is made from a ultra soft white non-woven fabric which gives it a high snag resistant quality. Ideal for uneven surfaces and developed for use with water-based paint systems.

<table>
<thead>
<tr>
<th>Packaging</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 x 50</td>
<td>D3055-10X50</td>
<td>bulk pack</td>
</tr>
<tr>
<td>1000 x 1</td>
<td>D3055-1000X1</td>
<td>individually wrapped</td>
</tr>
<tr>
<td>50 x 1</td>
<td>D3055-50X1</td>
<td>supplied with dispenser</td>
</tr>
</tbody>
</table>
This non linting, honeycomb fabric design TAKrage® finds particular use in the paint finishing of motor vehicles. Tests have shown that dirt and fibre counts at the end of the paint finishing line can be reduced up to two thirds with great impact on costs.

autoTAK®
LIGHT TACK

This non linting, honeycomb fabric design TAKrage® finds particular use in the paint finishing of motor vehicles. Tests have shown that dirt and fibre counts at the end of the paint finishing line can be reduced up to two thirds with great impact on costs.

10 x 50 D3035R-10X50 bulk pack

puraTAK®
MEDIUM TACK

PuraTAK® is a premium quality, resin impregnated textile cleaning wipe. Based on a specially selected, white high quality / high strength, extremely low linting continuous filament box knit polyester substrate. Specifically designed to remove and collect dust, dirt, fibres, hair etc from prepared surfaces prior to finishing, painting or enhancement. The product is impregnated to the optimum weight ratio with a unique resin system to provide the ultimate in contaminant collection and retention performance.

10 x 50 D3047-10X50 bulk pack

kleenTAK®
MEDIUM TACK

KleenTAK® is a high quality resin impregnated textile cleaning wipe. Based on a specially selected, white high quality / high strength, extremely low linting continuous filament box knit polyester substrate. Specifically designed to remove and collect dust, dirt, fibres, hair etc from prepared surfaces prior to finishing, painting or enhancement. The product is impregnated to the optimum weight ratio with a unique resin system to provide extremely high absorbency and contaminant retention.

10 x 50 D3057-10X50 bulk pack

SDA TAKmats
SUPER DUST ABSORBANT

Super Dust Absorbent TAKmats have 36 resin impregnated cotton covers enclosed in a heavy duty plastic frame with a super dust absorbent cushion foam interior. Top layer can be removed when soiled, to reveal a clean layer.

61 x 91cm D3305-2X1 2 Mats (SDA3)
104 x 91cm D3304-2X1 2 Mats (SDA2)
152 x 91cm D3303-1 1 Mat (SDA1)

LP TAKmats
LOW PROFILE

Low Profile TAKmats these mats have 30 positive adhesive plastic layers and are only 2mm thick. They can be supplied in white or blue. These layers are peeled away once soiled to reveal a fresh layer.

115 x 45cm D3306-4X1 4 Mats (White)
115 x 45cm D3307-4X1 4 Mats (Blue)

TAKmats

BARRIER CURTAIN

High Tack Cotton, Flame Retardant

Barrier Curtain is an excellent material for filtering air and effectively removes unwanted contamination such as lint, dust and other fibrous particles.

86cm x 50m D3080-1X50 50m roll
86cm x 35m D3081-35 35cm roll with release paper
ULTRACLEAN WIPE

LOW LINT

White Ultra soft non-woven fabric suitable for the most sensitive surfaces. Strongly bound, low lint polyester / viscose synthetic fibres designed to give maximum absorbency. Ultraclean Wipe can be used as dry wipes or in conjunction with cleaning solvents, no undesirable residues are left behind whether from shed particles or from extracts from the fabric itself.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 x 10</td>
<td>D3115-10X10</td>
<td>bulk pack</td>
</tr>
<tr>
<td>10 x 50</td>
<td>D3115-10X50</td>
<td>bulk pack</td>
</tr>
</tbody>
</table>

SOLVENT WIPE

HIGHLY ABSORBENT

This is a green non woven strong, highly absorbent wipe compatible with commonly used solvents used in the preparation of surfaces. It will not scratch or mark and has a long life due to its strong construction.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 x 50</td>
<td>D3113-10X50</td>
<td>bulk pack</td>
</tr>
</tbody>
</table>

LOW LINT WIPE

LOW LINT

Low Lint Wipe is an extremely low lint cleaning wipe based on a specially selected white, high quality / high strength continuous filament honeycomb knit polyester substrate. The product will not suffer from massive "fibre shed" when abraded or snagged as can normally be associated with other cleaning wipe substrates.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 x 50</td>
<td>D3112-10X50</td>
<td>bulk pack</td>
</tr>
</tbody>
</table>

KLEENKNIT TUBE WIPEs

PREMIER LINT FREE

Absorbent tube wipe is the proven premier lint free wiping cloth for automotive paint applications. Made of 100% first quality, continuous filament polyester. The absorbent tube wipe is more durable than other substrates and prevents "shedding" when snagged or caught on an irregular surface. Due to our vertical manufacturing system and strict quality assurance requirements Kleenknit sets the benchmark for quality. Superior absorbent capabilities allow for use with all sealer and solvent types.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12&quot; Diameter</td>
<td>D3150-1X1000</td>
<td>1000 Wipes (150 Denier)</td>
</tr>
<tr>
<td>18&quot; Diameter</td>
<td>D3155-1X500</td>
<td>500 Wipes (150 Denier)</td>
</tr>
</tbody>
</table>

KLEENKNIT ROBOT COVERS

LINT FREE

Kleenknit Robot Covers are made of 100% first quality, continuous filament polyester. The tubular design provides a protective covering for sealer area hoses and robotic machinery. The Kleenknit Robot Cover is lint free and contains no crater causing agents.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>30&quot;</td>
<td>S9051-1X1</td>
<td>100m roll</td>
</tr>
<tr>
<td>8&quot;</td>
<td>S9053-1X1</td>
<td>77.5m roll</td>
</tr>
</tbody>
</table>
ANTI-STATIC DUSTER

ANTl-STATIC

The antistatic duster is an orange, open weave cotton/rayon cloth with overlocked stitched edges. It is impregnated with an anti-static enhancer to give excellent removal and retention of static, dust and dirt.

61 x 21cm D3101-10X10 bulk pack

DG WIPES

LOW V.O.C, DEGREASING WIPES

Low lint, low VOC aqueous degreasing wipes for all degreasing applications. Resealable packs, high quality fabric.

10 x 25 D3084-10X25 bulk pack

MICROWIPE AS

ULTRA LOW V.O.C

Lint free non-woven microfibre fabric impregnated with a fast evaporating, anti static, ultra-low VOC level degreasing liquid. Ideal for cleaning and surface preparation of both metals and plastics prior to secondary operations. Available with standard and light impregnation levels.

10 x 25 D3086F-1X10X25 bulk pack (standard)
10 x 25 D3087-1X10X25 bulk pack (light)

ANTI-STATIC ANTI-STATIC DUSTER

ANTI-STATIC

This is a top quality ultra soft, yellow knitted cotton fabric with overlocked edges to eliminate fibres. It also contains an anti-static impregnant to eliminate static build up on plastic surfaces and help prevent the generation of static charges on most non-conductive surfaces. It can be used on the most delicate of items.

33 x 38cm D3102-10X10 bulk pack

ADCLENS ANTI-STATIC DUSTER

ANTI-STATIC

This is a top quality ultra soft, yellow knitted cotton fabric with overlocked edges to eliminate fibres. It also contains an anti-static impregnant to eliminate static build up on plastic surfaces and help prevent the generation of static charges on most non-conductive surfaces. It can be used on the most delicate of items.

61 x 21cm D3101-10X10 bulk pack

33 x 38cm D3102-10X10 bulk pack
Applying surface finishes is a messy business. Lacquers, paints, enamels and adhesives will by their very nature create soil and contamination, readily attaching to the fabric of the paint shop. Our experience shows that properly maintained spray booths will considerably reduce lost time procedures and improve booth efficiency leading to increased productivity.

How do you contain overspray?

Adding a solution from the TAK®kill Denaturant range to your spray booth water system rapidly “de-tackifies” the paint overspray ensuring that it is denatured to the required degree and is floated or sunk for removal according to the design features of the booth.

Benefits of GRAMOS® Denaturants and Additive products

- Increase booth efficiency by reducing down time
- Stops paint re-depositing within the booth
- Prevents sticky blockage of pumps and nozzles
- Removal of overspray solids made easier
- Biocide’s prevent odour causing bacteria
- Health and Safety conformance
- Reduce disposal costs
- Less frequent clean out / sludge disposal
Customised technical solutions
Industrial paint shops across Europe, from automotive O.E.M.’s to furniture manufacture rely on the support provided by the GRAMOS® Technical Team. Let us take the down time cost and hard work out of spray booth maintenance for you allowing you to concentrate on production.

Benefits of the Tech Team include:
• Bespoke dosing solutions, supply and installation
• Instrumentation and control panels
• Sales support
• Engineer site service
• Wall charts
• Staff training
• Full I.T. support including booth performance analysis data
• Water sample analysis
• Sales administration support, stock control, logistics
(above is subject to agreement)
**TAK**® **kill DENATURANTS**

<table>
<thead>
<tr>
<th>TAK**®** kill DENATURANT MS</th>
<th>B4711</th>
<th>TAK**®** kill DENATURANT HS</th>
<th>C4700</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MEDIUM SOLIDS</strong></td>
<td></td>
<td><strong>HIGH SOLIDS</strong></td>
<td></td>
</tr>
<tr>
<td>TAK**®** kill Denaturant MS is a colourless liquid based on a mixture of caustic and non-caustic alkalis formulated as an additive for spray booth water treatment. As the product is liquid the disadvantages associated with dissolving powder alternatives are eliminated. TAK**®** kill Denaturant MS is suitable for use in many different spray booth designs. It will rapidly denature a considerable range of different paint types, dependant on booth design the paint residue will float or sink in an easily removable form with minimal adhesion of paint residues to working surfaces.</td>
<td>Paint Type: Medium Solids, Stoving Alkyds, Acrylics Initial Concentration as % of Volume: 1%</td>
<td>In keeping with our policy of continued improvement and research, Orapi Applied have developed a paint denaturant based on organic components which result in a formulation as environmentally acceptable as it is effective. The product is also relatively safe to handle as it contains NO CAUSTIC ALKALIS. The TAK**®** kill HS system consists of one liquid component plus a regulator B5820 Alkaline pH Regulator which are dosed into the water system of the spray booths. The condition of the paint solids are completely denatured, with no residual tackiness or tendency to stick to surfaces with which they come into contact.</td>
<td>Paint Type: High Solids, Polyester Primer. Plus some waterborne in the same booth Initial Concentration as % of Volume: 1%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TAK**®** kill DENATURANT WB</th>
<th>D4714</th>
<th>TAK**®** kill DENATURANT GP</th>
<th>B4712</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WATER BORNE</strong></td>
<td></td>
<td><strong>GENERAL PURPOSE</strong></td>
<td></td>
</tr>
<tr>
<td>TAK**®** kill Denaturant WB is a liquid preparation consisting of a solution of alkalis formulated for use as an additive for spray booth water treatment. As TAK**®** kill Denaturant WB is a liquid the disadvantages associated with dissolving powder alternatives are eliminated. TAK**®** kill Denaturant WB has been developed for the treatment of over-spray paint in paint spray booths, particularly of the conventional pump type. Reaction between the over-spray paint and the TAK**®** kill Denaturant WB solution in the spray booth ensures that washing chambers, plates and pipe work of the spray booth require less frequent cleaning and the treated paint will float in a conventional denatured non-sticky form for easy removal.</td>
<td>Paint Type: Water Borne. 2 Pack Plus Some Solvent borne in the same booth Initial Concentration as % of Volume: 1%</td>
<td>TAK**®** kill Denaturant GP is a liquid preparation consisting of a solution of alkalis, formulated for use as an additive for spray booth water treatment. Due to the fact that TAK**®** kill Denaturant GP is a liquid, the disadvantages associated with dissolving powder alternatives are eliminated. TAK**®** kill Denaturant GP has been designed for the treatment of over-spray paint in paint spray booths, particularly of the conventional pump type. Reaction between the over-spray paint and the TAK**®** kill Denaturant GP solution in the spray booth will mean less frequent cleaning and the treated paint will float in a convenient denatured non-sticky form for easy removal.</td>
<td>Paint Type: General Purpose Initial Concentration as % of Volume: 1%</td>
</tr>
<tr>
<td>205L D4714-205 Barrel</td>
<td></td>
<td>205L D4714-205 Barrel</td>
<td></td>
</tr>
</tbody>
</table>
TAK®kill DENATURANTS

TAK®kill DENATURANT FM

LACQUERS

Neutral spray booth additive TAK®kill Denaturant FM has been developed for the treatment of paint over-spray especially in pumpless spray booths. TAK®kill Denaturant FM is neutral in reaction and is able to denature paints that are largely unaffected by alkaline additives.

TAK®kill Denaturant FM is supplied as a viscous liquid and finds application in the wood finishing industry.

D4704

Paint Type:
Water and Solvent borne stains and lacquers

Initial Concentration as % of Volume:
1%

TAK®kill ADDITIVE P.E.L.

POLYELECTROLYTE (RED)

TAK®kill Additive P.E.L. is a high-viscosity, milky-white liquid, developed in line with our continued policy of research and improvement, to offer polymer technology which aids separation of solids from water systems such as paint spray booths. The flocculants and coagulating agent allows the solids to separate from the water and be removed in whatever means has been designed such as flotation and skimming systems or settlement tanks. This helps save time and money on disposal of waste. The TAK®kill P.E.L. is normally used in conjunction with other TAK®kill Denaturant products which remove the tackiness of the resins prior to separation and removal.

D4702

Dose rate highly dependant on paint type and water system design.

25L D4702-25 Drum

TAK®kill ADDITIVE P.E.L./HS

HS POLYELECTROLYTE (BLUE)

TAK®kill Additive P.E.L./HS is a slightly viscous clear liquid, developed in line with our continued policy of research and improvement, to offer polymer technology which aids separation of solids from water systems such as paint spray booths. The flocculants and coagulating agent allows the solids to separate from the water and be removed in whatever means has been designed such as flotation and skimming systems. This helps save time and money on disposal of waste. The TAK®kill P.E.L./HS is normally used in conjunction with other TAK®kill Denaturant products which remove the tackiness of the resins prior to separation and removal – Particularly with TAK®kill HS Ref:C4700.

D4705

Dose rate highly dependant on paint type and water system design.

25L D4705-25 Drum

205L D4705-205 Barrel
TAK®kill ADDITIVES

**TAK®kill AF**

**ANTI-FOAM**

TAK®kill AF is a creamy emulsion blend of complex anti-foam agents in a highly refined mineral oil.

This silicone-free, highly efficient, foam-control agent is particularly suitable for use in the water of paint spray booths. It is especially effective in reducing foam created by over-spray of water-borne paints into the booth’s water recirculation systems. It can also be used with solvent based paints being denatured in high pH alkaline water treatment solutions.

- **Dose in small amounts to dissipate foam as required**
- **20KG D8805-20 Drum**

**TAK®kill pH REGULATOR**

**pH REGULATOR**

TAK®kill pH Regulator is an alkaline based additive designed to maintain paint booth water within pH range 8-10 where acidic water is encountered. Maintaining the water within pH range 8-10 will protect the booth structure against corrosive attack and aid separation / floatation of paint solids from the water.

- **Dose in small amounts until the required pH is achieved**
- **25L B5820-25 Drum**

**TAK®kill ADDITIVE BC1**

**BACTERICIDE**

TAK®kill Additive BC is a blue liquid particularly suitable for the elimination of offensive odours caused by bacteria in the water of water-wash paint spray booths. It must be used in conjunction with the normal spray booth compounds used to denature the paint.

- **5L C8705B-5 Container**
- **Initial Concentration as % of Volume: 0.01% - 0.1%**

**TAK®kill ABC CLEANER**

**BIOCIDAL CLEANER**

Biocidal cleaner used in spray booths to disinfect prior to clean down and replenish.

- **4 x 5L F8707A-4X5 Container**
- **Initial Concentration as % of Volume: 1%**

**TAK®kill ADDITIVE MA**

**SPRAY BOOTH WATER TREATMENT**

TAK®kill Additive MA is a dispersion of antifoam in a mineral oil, used in a spray booth to aid the denaturing process. It has been designed as an additive to the water of spray booths, and is to be used as an addition to the spray booth denaturant to enable more effective paint denaturing to help control foam and bacterial activity. TAK®kill Additive MA forms a film on the surface of the liquid in the water tank of the booth which prevents the particles of paint clogging and exposes the total surface area of the paint particle to attack by the paint denaturant.

- **Dose in small amounts to dissipate foam as required**
- **Dose in small amounts until the required pH is achieved**
- **25L A5629-25 Drum**
- **Initial Concentration as % of volume: 0.1%**
We can advise on automatic dosing equipment.

We can advise on various containment systems to ensure that any accidental product spillages are suitably contained. Sizes will vary depending on the size and number of Dosing Tanks being installed to ensure that there is suitable capacity within the spill tray.

We can advise on various storage tank options for the storage of our products. The storage tanks can be fitted with the dosing pumps or the dosing pumps can be positioned away from the storage tanks. The size of the storage tanks will vary depending on the product usage and any space constraints that are in effect at the site and position of the dosing equipment.
Paint spray booths should ideally be kept in a clean and bright condition, unfortunately maintaining your booth in premium condition is difficult within a modern spray shop. Repeated overspray of often multiple paint types and colours, airborne dust and general grime collect on all surfaces. Removal of this contamination is labour intense and time consuming, alternatively neglecting the booth will cause an increase in rejects and rework as dust and particulate attach to your work piece.

Do you want to keep your spray booth in optimum condition without the workload?

Orapi Applied Ltd manufacture a market leading range of protective coatings to help you take control of booth maintenance. Easy to apply, simple to remove, faster clean downs and increased protection.

Protective coatings for booth walls, floors and light systems, products to suit all surfaces and applications. Applying by spray, brush or roller the products dry to a semi-permanent smooth bright film enhancing the condition of the spray booth, when it is time to remove simply peel from the surface, dispose and re-apply a fresh coating. Peelable coatings are also suitable for temporary surface protection within multiple manufacturing processes, protecting finished surfaces during handling, storage and delivery. Also ideal within construction industry, GRAMOS® coatings will protect against abrasion, impact, corrosion, paint, resins and bitumen.
Tacky coatings are a water based solution for airborne dust within painting and process applications, once applied the film does not completely dry and remains tacky to the touch. Airborne dust is attracted to the coating and is contained on the surface greatly assisting in keeping the area free from airborne contamination. Available in liquid, gel and paste formats with solutions for heavy duty and high temperature applications. Tacky coatings are easily washed off with water.

Protective barrier coatings that dry to semi-permanent film, applied by spray, brush or roller these coatings are water soluble or removed with an alkaline detergent solution. Whilst suitable for booth walls this range of products are especially advisable for areas where a peelable product is not recommended like booth floor plates and other intricate surfaces.
# SOLVENT BASED PEELABLE COATINGS

## PROPEEL STANDARD

Propeel is a white, light-reflective, solvent-based temporary coating designed for application to all smooth, clean metal spray booth walls in order to provide an easy method of maintenance. Resistant to solvents once dry. The dried film collects paint over-spray and is readily peelable to enable even heavy over-spray deposits to be quickly and cleanly removed.

<table>
<thead>
<tr>
<th>4 x 5L</th>
<th>G4602-4X5 Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>25L</td>
<td>G4602-25 Drum</td>
</tr>
</tbody>
</table>

## PROPEEL HS HEAT-STABILISED

Propeel HS is a white, heat-stabilised, solvent-based temporary protective coating designed for application to all smooth metal spray booth walls in order to provide an easy method of maintenance. It can withstand exposure to temperatures up to 83 deg C. Resistant to solvents once dry. The dried film collects paint over-spray and is then readily peelable to enable even heavy over-spray deposits to be quickly and easily removed.

<table>
<thead>
<tr>
<th>4 x 5L</th>
<th>G4603-4X5 Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>25L</td>
<td>G4603-25 Drum</td>
</tr>
</tbody>
</table>

## PROPEEL HD HEAVY DUTY

Propeel HD is a heavy-duty, viscous liquid which dries to leave an off-white, tough, peelable film. It offers a simple yet effective method of maintaining and protecting non-solvent-sensitive floors and other surfaces from abrasion, paints, oils, resins, and dilute acids and alkalis. Applied correctly this peelable protector will even withstand forklift trucks.

| 25L    | G4600-25 Drum       |

## PROPEEL OP OPAQUE

Propeel OP is an opaque finish peelable coating designed to protect components and finished articles during handling, manufacture, assembly, storage and delivery. It can be used on all smooth ferrous metals, plain aluminium, vitreous enamels, ceramics, glass and other non-solvent-sensitive surfaces. It will protect against abrasion, impact damage, welding spatter, rusting, corrosion, chemical attack, paint resins and bitumen.

| 25L    | G4610-25 Drum       |

## PROPEEL CL SEMI-CLEAR

Propeel CL is a solvent-based, semi-clear, temporary, protective coating designed for application to glass, light fittings and other surfaces that require good visibility. Resistant to solvents once dry. This peelable provides an easy method of maintenance as the dried film collects paint over-spray and is then readily peelable enabling over-spray deposits to be quickly and cleanly removed.

| 25L    | G4604-25 Drum       |

Note: Test Compatibility with painted, coated and plastic surfaces before use.
## AQUAPEEL

### STANDARD
AquaPeel is a white, water-based, temporary coating designed for application to smooth, clean metal walls in order to provide an easy method of maintenance. The dried film collects paint overspray and contamination and is readily peelable to enable even heavy overspray deposits to be quickly and cleanly removed.

**A4605**
- Colour: White
- Application: Spray, brush or roller
- Drying Time: 2-3 hours with good air circ and normal temperature
- Coverage: 5 sq. m per litre
- Life: Max 3 months

<table>
<thead>
<tr>
<th>Container</th>
<th>Drum</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 x 5L A4605-4X5</td>
<td>25L A4605-25</td>
</tr>
</tbody>
</table>

## AQUAPEEL ULTRA

### PAINTED AND PLASTIC SURFACES
AquaPeel Ultra is a specially designed peelable protective coating that is suitable for multiple surfaces within modern paint spray booths, the unique formulation overcomes difficult applications like painted and plastic surfaces that commonly cause issues during removal. An easily sprayable white pigmented water based peelable protective coating based on advanced polymer technology. The product is designed for application to paint spray booth walls etc to enable paint overspray deposits to be quickly and easily removed. Booths are maintained in ‘as new’ condition providing the ideal paint spraying environment.

**A4618**
- Colour: White
- Application: Spray, brush or roller
- Drying Time: 2-3 hours with good air circ and normal temperature
- Coverage: 2.5 sq. m per litre
- Life: Max 3 months

<table>
<thead>
<tr>
<th>Container</th>
<th>Drum</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 x 5L A4618-4X5</td>
<td>25L A4618-25</td>
</tr>
</tbody>
</table>

## AQUAPEEL TS

### TRANSPARENT
AquaPeel TS is a water-based, transparent, temporary protective coating designed for application to glass, light fittings and other surfaces that require good through visibility. This peelable provides an easy method of maintenance as the dried film collects paint overspray and is then readily peelable enabling overspray deposits to be quickly and cleanly removed.

**D4608**
- Colour: Transparent
- Application: Brush or roller
- Drying Time: 3-4 Hrs
- Coverage: 5 sq. m per litre
- Life: Remove as required

<table>
<thead>
<tr>
<th>Drum</th>
</tr>
</thead>
<tbody>
<tr>
<td>25L D4608-25</td>
</tr>
</tbody>
</table>

## TACKY SURFACE COATINGS

## TACKY SURFACE COATING

### REMOVES AIRBORNE PARTICLES
Tacky Surface Coating is a water-based solution specially formulated for application to painted spray booth walls. The film does not completely dry out at ambient temperatures and its tacky surface collects and holds dust thus greatly assisting in keeping the spray booth area free from airborne particles which can be detrimental to the finished article. Once contaminated the coating can be easily washed off with water.

**A4512**
- Application: Spray, brush or roller
- Drying Time: Remains Tacky
- Coverage: 8-10 sq. m per litre
- Life: 2-4 weeks or 50 hrs at low bake temperatures

<table>
<thead>
<tr>
<th>Container</th>
<th>Drum</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 x 5L A4512-4X5</td>
<td>25L A4512-25</td>
</tr>
</tbody>
</table>

## BARRIER GEL

### REMOVES AIRBORNE PARTICLES
Barrier Gel is a water-based solution specially formulated for application to spray booth walls and robot covers. Due to its heavy duty nature it is not advisable to use in spraybooths where operators are spraying continuously. The film does not completely dry out and will remain effective for up to 50 hours at temperatures up to 50-70 deg C. Its tacky surface collects and holds dust thus greatly assisting in keeping the spray booth area free from airborne particles which can be detrimental to the finished article. Once contaminated the coating can be easily washed off with water.

**D4500**
- Application: Spray or brush
- Drying Time: Remains soft & tacky
- Coverage: 2-3 sq. m per litre
- Life: 2-4 weeks or 50 hrs at 50-70°C

<table>
<thead>
<tr>
<th>Barrel</th>
</tr>
</thead>
<tbody>
<tr>
<td>205L D4500-205</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Drum</th>
</tr>
</thead>
<tbody>
<tr>
<td>25L D4500-25</td>
</tr>
</tbody>
</table>

---

**WATER BASED PEELABLE COATINGS**

**HANDCARE**

**PAINT REMOVAL**

**SURFACE CLEANING**

**PROTECTIVE COATINGS**

**METAL PRE-TREATMENT**

**PAINT TREATMENT**

**DUST CONTROL**

**WATER TREATMENT**
TACKY SURFACE COATINGS

BARRIER PASTE WW

**WATER WASHABLE**

Barrier Paste WW is a non-drying, water washable, dust collecting surface coating. Prevents paint penetration, adhesion and provides a dust and dirt retaining surface for spray booths and fittings. It is off-white and water-based, so can be easily removed with water.

**Application:** Spray or brush  
- **Coverage:** 4-5 sq. m per litre  
- **Life:** Remove & re-apply as required

25L A4510-25 Drum

---

BARRIER PASTE WR

**WATER RESISTANT**

Barrier Paste WR is a non-drying, water resistant, dust collecting surface coating. Prevents paint penetration, adhesion and provides a dust and dirt retaining surface for spray booths and fittings. It is splash resistant and should be applied in thick layers. It can be re-coated and is best removed by scraping.

**Application:** Rag or brush  
- **Coverage:** 4-5 sq. m per litre  
- **Life:** 3-4 weeks depending on usage

25L D4501-25 Drum

---

OVEN COAT WR HT

**HIGH TEMPERATURE, HIGH TACK**

The applied coating converts to a highly effective tacky dust collecting surface, that will withstand high oven temperatures (up to +180 deg C) for prolonged periods.

**Application:** Spray or brush  
- **Coverage:** 4-5 sq. m per litre  
- **Life:** Remove & re-apply as required

25L D4531-25 Drum

---

BARRIER SURFACE COATINGS

BARRIER FILM WS

**WATER SOLUBLE**

Barrier Film WS is a water soluble coating that dries to form a white, dry, non-dusty, absorbent surface. It prevents paint over-spray from adhering to spray booths, floor plates and fittings. It is water-based and should be applied in thick layers. Barrier Film WS is easily removed by pressure wash with water or by scraping.

**Application:** Spray, brush or roller  
- **Drying Time:** 6-8 hrs under normal conditions  
- **Coverage:** 4-5 sq. m per litre  
- **Life:** Remove and re-apply as required

25L A7866-30 Drum  
205L A7866-205 Barrel

---

BARRIER FILM AS

**ALKALINE SOLUBLE**

Barrier Film AS is a tough, alkaline soluble, transparent coating which when dry is resistant to water but can be removed with a dilute alkaline detergent solution. These special properties make Barrier Film AS ideal for use in spray booths as a temporary protective coating. Uninsightly paint over-spray adheres to the surface of Barrier Film AS instead of the underlying structure. Barrier Film AS can be used on a wide range of non-porous surfaces including floors and walls.

**Application:** Spray or roller  
- **Drying Time:** 6-8 hrs under normal conditions  
- **Coverage:** 5-10 sq. m per litre  
- **Life:** Remove and re-apply as required

10L A4505-10 Drum
Orapi Applied Ltd manufactures a range of surface cleaners to support Paintshop and Metal pre-treatment applications

1 Hard Surface Cleaners

From low hazard products for general cleaning through to industrial cleaners for difficult soiling, products to apply by hand, brush, pressure washer or floor scrubbing machines

2 Degreasing Wipes

A range of specialist impregnated degreasing wipes for a multitude of applications

ORAPI’s RECOMMENDATIONS

CHEMICAL ACTION (pH)

THE RECOMMENDED ORAPI PRODUCT

MECHANICAL ACTION

THE RIGHT EQUIPMENT
parts washer, scrubber-drier, pressure washer, manual

TEMPERATURE OF MIXTURE

Use the product at the suggested temperature to maximise efficiency

ACTION TIME

THE RIGHT ACTION TIME
Allow suitable contact time or leave the parts to soak before rinsing or wiping clean
# HARD SURFACE CLEANERS

## AQUABRITE
### ALKALINE CLEANER
Aquabrite is a non-flammable water based alkaline cleaner designed to meet the highest standards of general performance cleaning. It can be used for all general maintenance cleaning and is particularly useful for removing light paint over-spray and silicone making it an ideal paint shop cleaner.

- **Application:** Cold spray/wipe on - wipe off
- **Concentration:** Light soiling - 5%

<table>
<thead>
<tr>
<th>Container Size</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 x 5L</td>
<td>A7212-4X5</td>
<td>Container</td>
</tr>
<tr>
<td>25L</td>
<td>A7212-25</td>
<td>Drum</td>
</tr>
<tr>
<td>205L</td>
<td>A7212-205</td>
<td>Barrel</td>
</tr>
</tbody>
</table>

## AQUAKLEEN
### WATER BASED INK REMOVER
Aquakleen is a safe to use water based cleaner, for removal of water based inks from machine parts, floors, etc. For best results dilute with 1 to 10 parts water dependant on application.

- **Application:** Cold spray/wipe on - wipe off
- **Concentration:** High Soiling - 1-2%

<table>
<thead>
<tr>
<th>Container Size</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 x 1L</td>
<td>A7211-12X1</td>
<td>Bottle</td>
</tr>
<tr>
<td>25L</td>
<td>A7211-25</td>
<td>Drum</td>
</tr>
<tr>
<td>205L</td>
<td>A7211-205</td>
<td>Barrel</td>
</tr>
</tbody>
</table>

## AQUABOOST
### ALKALINE CLEANER
Aquaboost is a highly concentrated liquid cleaner, formulated to rapidly remove most industrial soils. It provides high performance cleaning at very low concentrations. Can be used in pressure washing and floor scrubbing machines. Aquaboost quickly removes oils, greases, etc.

- **Application:** Hot or cold Pressure washing, Steam cleaning, Floor scrubbing, Hand spray application
- **Concentration:** High Soiling - 2-5%

<table>
<thead>
<tr>
<th>Container Size</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>25L</td>
<td>B7216-25</td>
<td>Drum</td>
</tr>
<tr>
<td>205L</td>
<td>B7216-205</td>
<td>Barrel</td>
</tr>
</tbody>
</table>

## AQUABOOST LOW FOAM
### ALKALINE CLEANER CONCENTRATE
Aquaboost is a highly concentrated liquid cleaner, designed for the cleaning of industrial floors. It will rapidly remove oils, greases and general soiling from floors and other hard surfaces. When used in conjunction with floor scrubbing machines, the low foam nature of the product promotes the easy rinsing of the floor leaving minimal detergent residues.

- **Application:** Floor scrubbing machines, mop, hand spray application
- **Concentration:** Light Soiling - 10%

<table>
<thead>
<tr>
<th>Container Size</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>25L</td>
<td>B7903-25</td>
<td>Drum</td>
</tr>
<tr>
<td>205L</td>
<td>B7903-205</td>
<td>Barrel</td>
</tr>
<tr>
<td>1000L</td>
<td>B7903-1000</td>
<td>IBC</td>
</tr>
</tbody>
</table>

## G850
### GENERAL PURPOSE CLEANER
G850 is a powerful concentrated cleaner used for the rapid removal of grease and contamination from surfaces. An ingenious formulation allows G850 to tackle a wide range of duties from heavy duty contamination to light soiling.

- **Application:** Immersion, Wipe on/ wipe off
- **Concentration:** Use as supplied

<table>
<thead>
<tr>
<th>Container Size</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 5L</td>
<td>A1220-2X5</td>
<td>Container</td>
</tr>
<tr>
<td>25L</td>
<td>A1220-25</td>
<td>Drum</td>
</tr>
<tr>
<td>205L</td>
<td>A1220-205</td>
<td>Barrel</td>
</tr>
<tr>
<td>1000L</td>
<td>A1220-1000</td>
<td>IBC</td>
</tr>
</tbody>
</table>

## SEALANT REMOVER
### AIR DRYING
Sealant Remover is an air drying formulation designed for removing sealants and heavy soiling, leaving a clean, residue-free surface.

- **Application:** Immersion, Wipe on/ wipe off
- **Concentration:** Use as supplied

<table>
<thead>
<tr>
<th>Container Size</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 x 500ml</td>
<td>E4030-12X500</td>
<td>Bottle</td>
</tr>
</tbody>
</table>

## GLASS CLEANER
### GLASS CLEANER
Glass Cleaner is a sophisticated blend of solvents and detergent specifically formulated for cleaning glass and other hard surfaces where a streak free finish is essential. The product cleans a wide variety of soils. It is suitable for use on all glass, stainless steel, chrome, ceramic, laminate and most plastics.

- **Application:** spray and wipe with a quality paper towel, or lint free cloth.
- **Concentration:** Use as supplied

<table>
<thead>
<tr>
<th>Container Size</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 x 500ml</td>
<td>D7111K-6X500</td>
<td>Trigger Spray</td>
</tr>
<tr>
<td>2 x 5L</td>
<td>D7111D-2X5</td>
<td>Container</td>
</tr>
</tbody>
</table>
METSOLV WIPE 4022

SOLVENT WIPE
Low lint solvent impregnated wipes ideal for a wide range of degreasing applications. Low vapour toxicity, low lint, fast drying with a controlled solvent content per wipe.

300 E4022-300 Perforated Roll

METSOLV WIPE 4034

SOLVENT WIPE
Metsolv 4034 Wipes are a high quality low lint paper wipe impregnated with a blend of residue free solvents. The product is ideal for a wide range of degreasing applications. Low vapour toxicity, low lint, fast drying. Dispensed as an individual wipe.

300 E4034-300 Bulk Pack

ORANGE SOLVENT WIPE

PRONATUR® Orange Solvent Wipes are a low lint wipe impregnated with a specially formulated blend of degreasing solvents and citrus based cleaning agents designed for use in industrial applications. It offers superior penetration and cleaning of difficult to remove contaminants, mineral oils, greases, tar/bitumen, semi-cured adhesives and sealants, uncured paints/varnishes and oil based printing inks.

5 x 25 WSO150 Bulk pack
Degreasing

WHAT IS IT?
Oily or greasy substances, hydrocarbon deposits. Sources of surface contamination within manufacturing could be from cutting fluids, pressing oils, mould release agents and lubricants.

SURFACE CONTAMINATION
WHAT DOES IT CAUSE?
Prevents paint and coating adhesion. Therefore the removal of grease is important within manufacturing, repair and overhaul.

Orapi manufactures a comprehensive range of solvent and aqueous degreasing solutions to suit every application, for all types of oil, grease and soil removal whether by single or multi stage pre-treatment process. Our technology utilises the latest in chemical advances for manual, immersion, ultrasonic and spray wash processes.

OXIDATION
WHAT IS IT?
Oxidation is the interaction between the oxygen molecules present in the atmosphere and a surface or material it reacts with. Common forms of oxidation are the formation of rust on iron or steel surfaces and components or how freshly processed copper turning green when left in the environment.

Oxidation can often cause unsightly reactions on the surface or cause destructive effects, these oxide layers are sometimes needed to be removed before the component can be further processed or to make the surface appear clean and bright. Products with this capability are known as de-oxidisers and they remove the thin oxide layer from the surface exposing the bare metal again. This bare metal will have a bright finish and will be reactive to various processes including Phosphating and Corrosion Inhibitors.

Our range of advanced products offer fast and effective solutions for the removal of corrosion and oxide coating from metal surfaces. Many of the pickling and de-scaling products are specifically formulated to ensure a long solution life providing the opportunity to achieve cost reductions.
Phosphating

WHAT IS IT?

The process of Phosphating relates to the conversion coating process that produces a uniform, very thin layer of metal Phosphate on the surface on a metal component. The resultant metal Phosphate surfaces are formed for various reasons; these include improved paint and plastic coating adhesion, corrosion protection and increased lubrication prior to metal drawing operations.

To enable the Phosphating process to work efficiently the surface of the metal will need to be clean of any contamination. Therefore often a de-oxidising or degreasing operation is required prior to the Phosphating process to remove any oxide layers, oils and greases that are present.

Our iron phosphate, zinc phosphate, chromate or dry in place systems provide a superior conversion coating on ferrous and non-ferrous metal surfaces prior to painting. Use of these processes and final rinse additives increases the corrosion resistance of the metal surface and enhances paint adhesion properties.

CORROSION INHIBITORS

WHAT ARE THEY?

A corrosion inhibitor is a protective additive encased within a chemical blend, when applied to a surface it decreases the corrosion rate of a material, typically a metal or an alloy. This common mechanism for inhibiting corrosion involves formation of a coating, often a passivation layer, which prevents access of the corrosive substance to the metal.

Our range of water based and solvent based anti-corrosion and protective treatments are available to suit all applications from short to long term protection. These offer essential protection against the corrosion of ferrous metals following cleaning and processing.
PRE-PAINT WIPE

SOLVENT CLEANING FLUID

Fast evaporating residue free solvent cleaner. The product evaporates quickly making it ideal for cleaning surfaces prior to painting.

G4035

Application: Apply sparingly to a clean lint free cloth and wipe the surface to be cleaned/painted.
Concentration: Use as supplied

<table>
<thead>
<tr>
<th>4 x 5L G4035G-4X5 Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>25L G4035-25 Drum</td>
</tr>
<tr>
<td>205L G4035-205 Barrel</td>
</tr>
</tbody>
</table>

ORANGE SOLVENT

BIODEGRADABLE SOLVENT

PRONATUR® Orange Solvent is a specially formulated blend of degreasing solvents and citrus based cleaning agents designed for use in industrial applications. The product offers controlled evaporation for increased contact time, superior penetration and cleaning of difficult to remove contaminants, mineral oils, greases, tar/bitumen, semi-cured adhesives and sealants, uncured paints/varnishes and oil based printing inks.

<table>
<thead>
<tr>
<th>6 x 1L SLO120 Bottle</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 x 1L SLO120T Trigger</td>
</tr>
<tr>
<td>4 x 5L SLO128 Container</td>
</tr>
<tr>
<td>12 x 500ml SLO130 Aerosol</td>
</tr>
<tr>
<td>25L SLO132 Drum</td>
</tr>
<tr>
<td>205SLO136 Barrel</td>
</tr>
<tr>
<td>1000L SLO140 IBC</td>
</tr>
</tbody>
</table>

SLO

E4010

Application: Spray systems, dip & ultrasonic tanks, recirculating parts washers, Manual – brush, cloth, sponge
Concentration: Use as supplied

<table>
<thead>
<tr>
<th>4 x 5L E4010-4X5 Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>25L E4010-25 Drum</td>
</tr>
<tr>
<td>205L E4010-205 Barrel</td>
</tr>
</tbody>
</table>

METSOAK EM3965

HIGH POWER EMULSIFIABLE SOLVENT DEGREASER

Metsoak EM3965 is a carefully selected blend of biodegradable surfactants formulated with hydrocarbons. The solvents rapidly penetrate oil and grease deposits and the incorporated detergency package enables the product to be readily rinsed with water. Due to its high solvency power, it is ideal for many difficult cleaning tasks including the removal of heavy fuel oils, oxidised and aged oil deposits, tars, heavy greases and tenacious lubricating or polishing compounds.

H3965

Application: brush, swab, non-misting spray, soak tank or recirculating parts washer.
Concentration: Use as supplied and to be removed by clean free-flowing water

<table>
<thead>
<tr>
<th>25L H3965-25 Drum</th>
</tr>
</thead>
<tbody>
<tr>
<td>20SL H3965-205 Barrel</td>
</tr>
</tbody>
</table>

METSOLV 4010

HIGH PURITY SOLVENT CLEANER

Metsolv 4010 is an odourless, low flammability, high purity solvent blend designed for use as an air drying solvent cleaner and degreaser. The product has been formulated for the removal of a wide range of oils, greases, waxes and similar materials from metals and solvent resistant surfaces. The product is slow evaporating allowing it to remain on the surface and thoroughly penetrate the contaminant requiring removal.

<table>
<thead>
<tr>
<th>4 x 5L E4010-4X5 Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>25L E4010-25 Drum</td>
</tr>
<tr>
<td>205L E4010-205 Barrel</td>
</tr>
</tbody>
</table>

METSOAK AK3914

MILDLY ALKALINE NON-SILICATED CLEANER

Metsoak AK3914 is a liquid, non-silicated cleaner which may be used for the removal of a wide variety of oils and greases from ferrous and non-ferrous metal by immersion processes.

<table>
<thead>
<tr>
<th>25L A3914-25 Drum</th>
</tr>
</thead>
<tbody>
<tr>
<td>200L A3914-200 Barrel</td>
</tr>
<tr>
<td>1000L A3914-1000 IBC</td>
</tr>
</tbody>
</table>

IMMERSION DEGREASERS

A3914

Application: Immersion
Concentration: 5-10%
Temperature: between 50 - 55°C

<table>
<thead>
<tr>
<th>25L A3914-25 Drum</th>
</tr>
</thead>
<tbody>
<tr>
<td>200L A3914-200 Barrel</td>
</tr>
<tr>
<td>1000L A3914-1000 IBC</td>
</tr>
</tbody>
</table>

PRONATUR®
IMMERSION DEGREASERS

**METSOAK AK3923**

**HEAVY DUTY, ELECTROLYTIC CLEANER**

Metsoak AK3923 is a powder blend specially formulated to provide a powerful degreasing action for electro-cleaning iron and steel. The blend of alkalis in the product readily removes and suspends the most stubborn oil and grease deposits, whilst the surfactant additives improve soil penetration.

---

**B3923**

Application: Immersion
Concentration: 6%
Temperature: 70-80°C

---

**METSOAK AK3924**

**HEAVY DUTY DEGREASER AND RUST REMOVER**

Metsoak AK3924 is a powerful caustic based powder detergent designed for the removal of the most difficult industrial soils. It is ideal for use in demanding cleaning environments, such as engine reconditioning, where its low dosage offers extremely cost effective treatment. The products high sequestrant level supports the alkali detergent resulting in an efficient derusting and paint stripping capacity, in addition to the exceptional degreasing and decarbonising performance.

---

**B3924**

Application:
- Immersion - 5-25% concentration
- Spray wash - 0.5 - 1%, use at temperatures between 80-100°C

---

**METSPRAY AK3848**

**MEDIUM DUTY SPRAY WASH DETERGENT**

Metspray AK3848 is a medium duty liquid concentrate containing a blend of sequestrants and corrosion inhibitors that are specially formulated for use at low temperatures in interstage or final stage washing. It provides excellent cleaning performance, and the addition of a nitrite free rust inhibitor imparts good short term corrosion protection.

---

**A3848**

Application: Spray wash
Concentration: up to 5% at temperatures from ambient to +80°C

---

**METSPRAY AK3805**

**HEAVY DUTY DECARBONISING & DERUSTING FLUID**

Metspray AK3805 is a low foaming heavy duty liquid alkaline cleaner. Effective against a wide range of difficult to remove soilings including rust, paint, combustion engine deposits and oxidised grease and oil. The product is formulated for use in spray wash equipment but can also be used in immersion processes. Rinse thoroughly after use. Suitable for use with all ferrous metals.

---

**B3805**

Application:
- Spray wash - 1 - 10% concentration.
- Immersion - up to 50% concentration, can be heated to 95°C, rinse thoroughly after use.

---

**CITRIKLEEN HDA**

**SOLVENT EMULSION DEGREASER & DECARBONISER**

Citrikleen HDA is a biodegradable highly concentrated water dilutable emulsifiable solvent degreaser/decarboniser. It is formulated from a naturally occurring solvent combined with carbon removers and surfactants. Designed to degrade and dislodge carbonaceous deposits, oils and greases. It is an effective replacement for 1,1,1-Trichloroethane and other environmentally unacceptable solvents.

---

**E3970**

Application: Immersion, ultrasonic or wipe on - wipe off
Concentration: Can be diluted up to 20%

---

**SUPAR RX**

**SOLVENT EMULSION DEGREASER**

Supar RX is a hard surface cleaner. The high glycol solvent content enables the product to remove tenacious oils, greases, inks, adhesives and similar contamination from robust hard surfaces. It has also been found to be very effective when used with ultrasonic agitation.

---

**A3911**

Application: Brush, spray or immersion
Concentration: Can be diluted up to 5%
### METCLEAN DX4860

**ACIDIC ALUMINIUM CLEANER**

Metclean DX4860 is a liquid acidic material designed for cleaning and brightening aluminium equipment and surfaces. It removes scale, oxidation and greases.

- **Application:** Immersion (Tanks should be fabricated from rubber lined steel)
- **Concentration:** 5-25%
- **Temperature:** Ambient to 40°C

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>25L</td>
<td>C4860-25</td>
<td>Drum</td>
</tr>
</tbody>
</table>

### METSOAK DX4920

**INHIBITED ACID SCALE AND RUST REMOVER**

Metsoak DX4920 is a concentrated blend of inhibited mineral acid (phosphoric) with detergents and wetting agents. It is non-fuming and less aggressive than many other mineral acids but will effectively remove scale, rust and metal tarnish. The detergents contained in the product enable simultaneous pickling and oil/grease removal. It is a simple and economical method of removing rust, heat treatment scale and welding scale from ferrous components.

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Code</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 x 5L</td>
<td>C4920-4X5</td>
<td>Container</td>
</tr>
<tr>
<td>25L</td>
<td>C4920-25</td>
<td>Drum</td>
</tr>
<tr>
<td>205L</td>
<td>C4920-205</td>
<td>Barrel</td>
</tr>
<tr>
<td>1000L</td>
<td>C4920-1000</td>
<td>IBC</td>
</tr>
</tbody>
</table>

### METFIN® IP3502

**COMBINED DETERGENT IRON PHOSPHATER**

METFIN® IP3502 is a liquid phosphating solution designed to clean and conversion coat steel, aluminium and zinc. Applied by spray this material provides an extremely powerful cleansing action and forms an inert iron phosphate coating which will improve the adhesion and performance of painted finishes.

- **Application:** Spray
- **Concentration:** 1 - 3%
- **Temperature:** 50 - 60°C

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>25L</td>
<td>C3502-25</td>
<td>Drum</td>
</tr>
<tr>
<td>205L</td>
<td>C3502-205</td>
<td>Barrel</td>
</tr>
<tr>
<td>1000L</td>
<td>C3502-1000</td>
<td>IBC</td>
</tr>
</tbody>
</table>

### METFIN® IP3504

**IRON PHOSPHATER**

METFIN® IP3504 is a liquid concentrate formulated to produce medium to high weight Iron Phosphate coatings by spray application. METFIN® IP3504 is used in conjunction with the phosphate detergent – METFIN® AD3822 (page 29) which provides a very efficient detergent system making the product suitable for both twin and multistage plant. The ratio of detergent / phosphate can be adjusted to ensure efficiency and economy.

- **Application:** Spray
- **Concentration:** 1 - 3%
- **Temperature:** 35 - 60°C

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>25L</td>
<td>C3504-25</td>
<td>Drum</td>
</tr>
<tr>
<td>205L</td>
<td>C3504-205</td>
<td>Barrel</td>
</tr>
<tr>
<td>1000L</td>
<td>C3504-1000</td>
<td>IBC</td>
</tr>
</tbody>
</table>

### METFIN® IP3509

**COMBINED DETERGENT IRON PHOSPHATER**

METFIN® IP3509 has been formulated for simultaneous cleaning and phosphating of iron and steel in 3 or 4 stage spray plants. It produces a high performance amorphous phosphate coating, greatly enhancing the adhesion and performance of subsequently applied paint finishes. It is capable of effectively operating at temperatures as low as +17°C.

- **Application:** Spray
- **Concentration:** 3 - 5%
- **Temperature:** 17 - 70°C

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>25L</td>
<td>C3509-25</td>
<td>Drum</td>
</tr>
<tr>
<td>205L</td>
<td>C3509-205</td>
<td>Barrel</td>
</tr>
<tr>
<td>1000L</td>
<td>C3509-1000</td>
<td>IBC</td>
</tr>
</tbody>
</table>

### METFIN® IP3510

**LANCE APPLICATION CLEANER COATER**

METFIN® IP3510 is a liquid iron phosphating solution designed to clean and conversion coat steel, aluminium and zinc. METFIN® IP3510 is formulated to be applied by a hand held spray lance technique. The powerful cleaning action and subsequent formation of an amorphous iron phosphate coating provides for excellent paint adhesion and increased corrosion resistance of painted components.

- **Application:** Spray
- **Concentration:** 0.5 - 2%
- **Temperature:** 45 - 90°C

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>25L</td>
<td>C3510-25</td>
<td>Drum</td>
</tr>
<tr>
<td>205L</td>
<td>C3510-205</td>
<td>Barrel</td>
</tr>
<tr>
<td>1000L</td>
<td>C3510-1000</td>
<td>IBC</td>
</tr>
</tbody>
</table>
**METCLEAN AD5800**

**ACIDIC ADDITIVE FOR PHOSPHATING**

METCLEAN AD5800 is an acidic liquid formulated to increase the acidity of iron phosphate solution. The addition of Metclean AD5800 increases the free acid of these solutions.

| 25L | D3822-25 | Drum |
| 205L | D3822-205 | Barrel |
| 1000L | D3822-1000 | IBC |

**APPLICATION:**
- Dose as required to increase the pH of the solution.

**PHOSPHATING**

**METFIN® AD3538**

**DETERGENT DEGREASER**

METFIN® AD3538 is a synergistic blend of surfactants specially formulated for use in spray pretreatment processes, providing improved degreasing capabilities. The product may be used in conjunction with lightweight iron and zinc phosphate solutions as well as alkaline cleaners and can also be used as a neutral first stage knock-off. Adding METFIN® AD3538 to phosphating solutions will improve the efficiency of the process by producing a thoroughly cleaned and wetted surface.

| 25L | D3538-25 | Drum |
| 205L | D3538-205 | Barrel |

**APPLICATION:**
- Automated systems - Concentration in phosphate solutions up to 2%.
- Spray and immersion - cleaning concentrations will depend on the amount and type of contamination.

**ALKALINE pH REGULATOR**

**pH REGULATOR**

Alkaline pH Regulator is an alkaline based additive designed to maintain the pH of phosphating solutions within the correct parameters for optimum performance (pH 4 - 6)

| 25L | B5820-25 | Drum |

**APPLICATION:**
- Dose as required to increase the pH of the solution.

**METFIN® FR3601**

**CHROME FREE FINAL RINSE**

METFIN® FR3601 is a chrome-free, final rinse additive designed for use with iron and zinc phosphates in spray or immersion pre-treatment plants. Extensive testing has shown that the performance of METFIN® FR3601 equals that of hexavalent chrome based final rinses. The in-use solution must be prepared using good quality deionised water.

| 25L | C3601-25 | Drum |

**APPLICATION:**
- Immersion or spray
- Concentration: 0.25 - 0.5%
- Temperature: ambient to +70°C

**METFIN® FR3603**

**CHROME FREE FINAL RINSE**

METFIN® FR3603 is a non-chrome passivation treatment for use in the final rinse of Zinc and Iron Phosphate lines and can be applied by dip or spray application. METFIN® FR3603 increases the corrosion resistance of the substrate without reducing the adhesion of the subsequent paint finish.

| 25L | A3603-25 | Drum |

**APPLICATION:**
- Immersion or spray
- Concentration: 0.25 - 0.5%

**For additional detailed metal pre-treatment advice, please contact our technical department on +44 (0) 121 525 4000**
**PHOSPHATING**

**METFIN® FR3604**

**CHROME FREE FINAL RINSE**

METFIN® FR3604 is a chromate free, final rinse additive for use in spray or immersion pre-treatment plants. It provides protection to ferrous surfaces during dry-off, and significantly enhances overall process performance on steel and Zinc based substrates when used with the optional additives.

**B3604**

- **Application:** Spray or Immersion
- **Concentration:** 0.1 – 0.5%

25L B3604-25 Drum

---

**CORROSION INHIBITORS**

**METPROTECT SV3702**

**DEWATERING RUST PREVENTATIVE**

Metprotect SV3702 is a solvent deposited product, which provides superior dewatering and corrosion preventing properties. The product dries to a clear, thin ‘oily’ film that offers internal storage corrosion protection of treated components for up to twelve months, depending on the storage environment. Metprotect SV3702 is suitable for use on all metals including copper and aluminium alloys.

**E3702**

- **Application:** Dipping - Use cold, in purpose designed tank. Applied film will air dry in 45-60 minutes at ambient temperature. Spray/Brush - By low pressure, airless spray or brush

25L E3702-25 Drum

**METPROTECT SV3705**

**DEWATERING FLUID**

Metprotect SV3705 contains dewatering and corrosion preventing additives in a solvent base. It effectively displaces water and provides a stain free finish. Treated components are left with an extremely fine rust inhibiting film which will provide short term protection.

**E3705**

- **Application:** Dipping - By dewatering/immersion tank at room temperature. Spray/Brush - By low pressure, airless spray or brush

25L E3705-25 Drum

**METPROTECT SV3703**

**DEWATERING RUST PREVENTATIVE**

Metprotect SV3703 is a dewatering corrosion preventative that on application leaves a thin, “dry-to-touch”, transparent corrosion resistant film. It is normally used by dip application, but where this is not convenient, spray or brush methods may be employed. The dried film is over paintable.

**E3703**

- **Application:** Dipping - Use cold, in purpose designed tank. Applied film will air dry in 15-30 minutes at ambient temperature. Spray/Brush - By low pressure, airless spray or brush

25L E3703-25 Drum
205L E3703-205 Barrel

**METPROTECT 3740**

**TEMPORARY CORROSION INHIBITOR**

Metprotect 3740 is a highly active rust inhibitor and light duty cleaner suitable for many applications. It contains sodium nitrite blended with mild alkalis and wetting agents in order to provide rust inhibition of ferrous metals with excellent rinsing properties and a mild cleaning action.

**J3740**

- **Application:** Spray wash (For rust inhibiting rinse, heat the solution to achieve “flash-drying”)
- **Concentration:** 0.5 - 1.5
- **Temperature:** 70-90°C

25L J3740-25 Drum
Paint coatings are removed for a number of reasons from refurbishment to surface inspection and flaw detection. Common methods include mechanical (scraping or sanding), heat (hot air, radiant heat, or steam) or the use of a chemical paint stripper.

GRAMOS® deliver a 50 year manufacturing knowledge in our range of solvent or caustic based paint strippers, a complete range of solutions to suit most applications from “brush on” to immersion stripping. Paint stripping can be a hazardous business, therefore health, safety and environmental considerations during the process are very important. Please speak to the GRAMOS® technical team for the latest advice on current regulations and the safe use of chemicals during your paint removal process.
METSTRIP SV3405 *

BRUSH APPLICATION

Metstrip SV3405 is a brush application, Dichloromethane-based, acid activator paint stripper. It is a high-speed, brush application paint remover designed to quickly and cleanly remove most industrial paint finishes, lacquers, and varnishes. Suitable for use on most surfaces including wood but excluding light Magnesium alloys.

- **Container**
  - 4 x 5L F3405-4X5
  - 25L F3405-25
  - 205L F3405-205

The above images show the effects of Metstrip F3405 on a 2-Part paint after 2 minutes of application. *The effects of the product are dependant on paint type, thickness and conditions.*

METSTRIP ST3456 *

COLD IMMERSION

High performance, Hydrofluoric Acid activated, Dichloromethane-based, cold immersion stripper for the removal of difficult to remove finishes including polyester, nylon, powder coating and electrophoretic coatings from steel and aluminium.

- **Drum**
  - 22.5L C3456-22.5
  - 185L C3456-185

METSTRIP SV3452 *

IMMERSION

High performance, acid activated, Dichloromethane-based cold immersion stripper with an aqueous seal. Formulated for stripping a wide range of paints from most metals, including epoxy stoved paints and epoxy polyester powder coatings from steel most non-ferrous metals. Not to be used on Magnesium alloys, Zinc or plastics.

- **Drum**
  - 25L C3452-25
  - 205L C3452-205

METSTRIP ST9160 *

COLD IMMERSION

High performance, acid activated, cold immersion paint stripper. Based on Dichloromethane with a wax membrane seal. Ideal for the removal of a wide range of stoved paints including powder coating from most metals.

- **Drum**
  - 25L C3453-25
  - 205L C3453-205

METSTRIP EF3461

HOT IMMERSION

Non-chlorinated immersion paint stripper used as supplied at temperatures up to 60°C. Based on Benzyl alcohol which provides less hazards than conventional solvent strippers. Low evaporation provides a long tank life ideal for removing powder coatings on steel and other non-ferrous metals.

- **Drum**
  - 25L B3461-25
  - 205L B3461-205
  - 1000L B3461-1000

METSTRIP AK3459

HOT IMMERSION

Solvent boosted, caustic based, hot immersion paint stripper for removing 2 pack acrylic, polyurethane, powder coated steel components, jigs, floor grids etc. Environmentally friendly no solvent disposal.

- **Barrel**
  - 205L B3459-205

Working within paint shops, metal processing and dusty areas is always going to cause hand contamination, react to skin hygiene with the KLEENALL® industrial hand care range. Regarded for decades as the hand cleaner of choice within paint shops and associated industries the KLEENALL® range is effective in the removal of paints, inks, resins, oil, grease and other hard to remove soiling.

A comprehensive range in paste, gel, liquid or portable wipe variations, KLEENALL® has solutions for heavy duty cleaning, washroom, anti-bacterial and sanitising. Skin conditioning and barrier creams complete the range, dispensing options include wall mounted modular or pump systems.
KLEENALL® PROTECT

MOISTURISER & BARRIER CREAM

We are proud to offer a premium quality conditioning cream that moisturises the skin to prevent against cracking. KLEENALL® Protect is also a barrier cream, applied frequently it protects against dirt and enables easier cleaning which means that less aggressive hand cleaners are needed. Then, after work, KLEENALL® Protect is perfect to make your hands feel your own again. Can be used for wet or dry work. 2 in 1 product, reduces the number of products required.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 x 500ml</td>
<td>D7068-12X500 Pot</td>
<td></td>
</tr>
<tr>
<td>2 x 5L</td>
<td>D7068-2X5</td>
<td>Pot</td>
</tr>
</tbody>
</table>

KLEENALL® BEADED

CLEANER WITH POLY-BEADS

A premium quality industrial gel hand cleaner designed to give superb removal of all general grease, grime and ink. Poly-beads aid the removal of stubborn dirt such as tar or even wet paint, making KLEENALL® Beaded a superb all round workshop or factory hand cleaner suitable for most applications.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 x 3L</td>
<td>D7017-6X3</td>
<td>Tub</td>
</tr>
<tr>
<td>10L</td>
<td>D7017-10</td>
<td>Pail</td>
</tr>
</tbody>
</table>

KLEENALL® PASTE

CLEANER WITH POLY-BEADS

The original KLEENALL® Paste is lightly perfumed and free rinsing, KLEENALL® Paste is a pleasant and easy to use paste that has become the market leading product for the removal of paint, resins and adhesives. The specialist formulation containing poly-beads aids the removal of stubborn grease and grime, continuing to make KLEENALL® Paste the favourite hand cleaner amongst paint sprayers, print workers, mechanics and engineers.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 x 1L</td>
<td>D7030-12X1</td>
<td>Pot</td>
</tr>
<tr>
<td>4 x 5L</td>
<td>D7030-4X5</td>
<td>Tub</td>
</tr>
<tr>
<td>25L</td>
<td>D7030-25</td>
<td>Bucket</td>
</tr>
</tbody>
</table>

KLEENALL® LIQUID

CLEANER WITH POLY-BEADS

A powerful liquid version of our renowned KLEENALL® Paste, KLEENALL® Liquid is an easily dispensed poly-beaded hand cleaner that provides impeccable performance for professionals in the painting, printing and engineering areas.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 x 3L</td>
<td>D7067-4X3</td>
<td>Tub</td>
</tr>
<tr>
<td>4 x 5L</td>
<td>D7067G-4X5</td>
<td>Tub inc dispenser</td>
</tr>
</tbody>
</table>

KLEENALL® TAKLEEN

HAND CLEANER, NON-BEADED

A general purpose hand cleaner for the removal of paints, resins, adhesives, inks, grease and grime without resulting to the use of harmful solvents. This means that KLEENALL® Takleen does not de-fat the skin, but leaves hands feeling smooth and soft. Designed to reduce cases of dermatitis, KLEENALL® Takleen uses a blend of gentle surfactants to dissolve the most difficult soiling, allowing them to be washed away.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 x 5L</td>
<td>D7029-4X5</td>
<td>Tub</td>
</tr>
<tr>
<td>25L</td>
<td>D7029-25</td>
<td>Drum</td>
</tr>
</tbody>
</table>

KLEENALL® NATURALLE

SOLVENT FREE CLEANER

Designed to give high performance in demanding conditions but still be ultra kind to skin. KLEENALL® Naturalle is a totally solvent free paste, combining soaps, natural detergents and poly-beads.

A pleasant citrus fragrance and a rich lather make this a powerful but luxurious product capable of removing ingrained dirt and leaving hands smooth and conditioned.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 x 3L</td>
<td>D7018-6X3</td>
<td>Tub</td>
</tr>
</tbody>
</table>

KLEENALL® LUXURY

CLEANER & CONDITIONER

A mild but powerful, synthetic based liquid hand lotion with a luxurious fragrance that cleans and conditions to leave the skin feeling soft and supple.

Formulated for use in the most opulent of surroundings such as hotels and restaurants, KLEENALL® Luxury will also be the product of choice for office, factory and wash rooms.

<table>
<thead>
<tr>
<th>Size</th>
<th>Code</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 5L</td>
<td>D7011-2X5</td>
<td>Tub</td>
</tr>
<tr>
<td>12 x 800ml</td>
<td>D7011-12X800 Pot</td>
<td></td>
</tr>
</tbody>
</table>
## HANDSOAPS

### KLEENALL® ANTI-BAC

**ANTI-BACTERIAL HANDSOAP**

A powerful, non-perfumed, anti-bacterial hand soap that cleans and contributes to good hygiene. KLEENALL® Anti-Bac is effective against Enterobacteriaceae, Staphylococcus sp. and many other organisms. Widely used in Food Manufacturing and Catering outlets, also suitable for use in the healthcare sector. Added emollients in KLEENALL® Anti-Bac prevent the skin from drying or cracking even with frequent use. This combined with the anti-bacterial properties, mean that a residual bactericidal action is observed.

| 2 x 5L | D7045-2X5 | Tub |

### KLEENALL® WIPES

**WATERLESS SYSTEM**

KLEENALL® heavy duty hand wipes are a waterless hand cleaning system. Combining a high quality hand cleaner with a non-scratch abrasive towel to create a performance wipe which removes heavy grease, lubricants, adhesives, oils, tar, inks and many other difficult to remove soiling without the need for water. Ideal for the mobile workshop or situations where washing facilities do not exist.

| 10 x 70 Wipes | D7036-10X70 | Tub |

### KLEENALL® WIPES

**WATERLESS SYSTEM**

KLEENALL® heavy duty hand wipes are a waterless hand cleaning system. Combining a high quality hand cleaner with a non-scratch abrasive towel to create a performance wipe which removes heavy grease, lubricants, adhesives, oils, tar, inks and many other difficult to remove soiling without the need for water. Ideal for the mobile workshop or situations where washing facilities do not exist.

| 10 x 70 Wipes | D7036-10X70 | Tub |

### DERMA GEL

**ALCOHOL HAND SANITISER GEL**

Dermagel is an alcoholic gel for disinfection of the hands following washing with a hand soap. Used where high standards of hand hygiene are required.

| 2 x 5L | E7047-2X5 | Container |

## DISPENSERS

### WALL MOUNTED BRACKET

**DISPENSER**

Where usage of hand cleaner is high and appearance is important, Orapli Applied provide a robust, reliable and unique solution. Our 3 litre tubs fit into a handy wall mounted bracket with a heavy duty integral pump system that gives easy and reliable operation, looks good and prevents waste.

| 1 Unit | S9344-1X1 | Dispenser Pump with Bracket |

### WALL MOUNTED MODULAR SYSTEM

**DISPENSER**

Our new wall mounted modular system features “Double Hinge Technology” and interchangeable pump modules for liquid, spray or foaming products that can be refillable. Dispensers can be differentiated by colour coding for soap, sanitise, and protection but with a consistent “look” that maintains a professional image.

| 1 Unit | S9330-1X1 | 1 Litre Dispenser |

### WALL MOUNTED MODULAR SYSTEM

**DISPENSER**

Our new wall mounted modular system features “Double Hinge Technology” and interchangeable pump modules for liquid, spray or foaming products that can be refillable. Dispensers can be differentiated by colour coding for soap, sanitise, and protection but with a consistent “look” that maintains a professional image.

| 1 Unit | S9347-1X1 | Dispenser Pump |
our presence across the world
FRANCE

ORAPI FRANCE
Parc industriel de la Plaine de l’Ain
225, allée des Cèdres, 01150 Saint-Vulbas
Tel: +33 4 74 40 20 20 Fax: +33 4 74 40 20 21
Web: www.orapi.com Email: contact@orapi.com

FRANCE - ARGOS HYGIENE
12 rue Pierre Mendès France - 69120 Vaulx-en-Velin
Tel.: +33 (0)4 37 06 28 00 Fax: +33 (0)4 37 06 28 50
Web: www.argos-hygiene.fr E-mail: contact@argos-hygiene.fr

FRANCE - DACD
Parc d’Activités Mathias, BP 9
26320 Saint Marcel lès Valence
Tel: +33 4 75 58 80 10 Fax: +33 4 75 58 74 46
Web: www.dacd.com Email: contact@dacd.com

FRANCE - PHEM TECHNOLOGIE
21 allée Louis Bréguet, 93421 Villepinte Cedex
Tel: +33 1 49 63 44 55 Fax: +33 1 49 63 05 56
Web: www.phem.fr Email: contact@phem.fr

FRANCE - TOP PRO HYGIENE
Parc industriel de la Plaine de l’Ain,
225 Allée des Cèdres - 01150 Saint-Vulbas
Tel.: +33 (0)4 74 40 54 00 Fax: +33 (0)4 74 40 54 01
Web: www.top-hygiene.fr

SOUTHERN EUROPE

ITALY – ORAPI ITALIA SRL
Via Vaccareccia 39, 00040 Pomezia (RM)
Tel: +39 06 916 10576 Fax: +39 06 918 02468
Email: info@orapi.it

SPAIN – ORAPI TRANSNET SL
C/Secorún nº 4 - 22600 Sabiñánigo (Huesca)
Tel. / Fax : +34 974 480 828 Email: adminote@orapi.com

ASIA & MIDDLE EAST

SINGAPORE – ORAPI APPLIED (S) PTE LTD
No. 26 Tuas Avenue 13 - Singapore 638992
Tel.: +65 6265 2888 Fax: +65 6268 6474
Email: sin.sales@orapi.com.sg

THAILAND – ORAPI APPLIED (T) CO. LTD
55/75 Moo 9, Townplus Kaset-Nawamin Village, Klongumjai Road,
Klongkum, Bangkruai Bangkok 10240 – THAILAND
Tel.: +66 2508 1342 Fax: +66 25081343
Email: info@costthailand.com

MALAYSIA – ORAPI APPLIED (M) SDN BHD
No. 10, Jalan PJU 3/49 - PJU 3, Sunway Damansara
47810 Petaling Jaya - Selangor, Malaysia
Tel.: +603 7805 3605 Fax: +603 7880 5805
Email: msia.sales@orapi.com.my

DUBAI - ORAPI MIDDLE EAST L.L.C.
729 Business Village Main Bldg B - PO Box 120509 Dubai UAE
Tel.: +971 (0) 42942947 Fax: +971 (0) 42942948
Email: dub_sales@orapi.ae

NORTHERN EUROPE

UNITED KINGDOM – ORAPI APPLIED LTD
Spring Road, Smethwick, West Midlands B66 1PT
Tel: +44 121 525 4000 Fax: +44 121 525 4919
Web: www.orapiapplied.com Email: info@orapiapplied.com

NETHERLANDS – ORAPI APPLIED NEDERLAND B.V.
Ondermersweg 16, 2404 HN Alphen aan den Rijn
Tel: +31 172 43 72 21 Fax: +31 172 43 69 01
Web: www.orapiapplied.nl Email: benelux@orapiapplied.com

BELGIUM – ORAPI APPLIED BELGIUM S.A.
Kapelsteenweg 292 - 2930 Brasschaat
Tel.: +32 2 2800 736 Email: sales@orapiapplied.be

SWEDEN – ORAPI NORDIC OY AB
Vaksala – Eke Hus C - 755 94 UPPSALA
Tel.: +46 333 66 000 Email: info@orapi.se

POLAND – ORAPI NORDIC SP. z o.o.
ul. Sremska 75a - 62-050 Mosina - Polska
Tel.: +48 61 813 86 40 Fax: +48 61 813 86 91
Email: mariusz.polkowski@orapi.com

PACIFIC

AUSTRALIA – ORAPI PACIFIC-VICTORIA LUB PTY LTD
Factory 24, 29-39 Kirkman Road West, Keysborough, PO Box 816, Victoria 3173
Tel: +613 9701 5373 Fax: +613 9701 5532
Email: info@viclube.com.au

MAURITIUS – ORAPI PACIFIC PROLUB CIE LTD
62 Pailles Road, Port Louis
Tel: +230 208 1477 Fax: +203 210 7370
Email: admin.prolub@intnet.mu

NEW CALEDONIA – ORAPI PACIFIC SFAC SARL
27 rue Ampère, ZI Ducos, 98846 Nouméa Cedex
Tel: +687 25 15 40 Fax: +687 27 20 67 Email: sfac@sfac.nc

SOUTH AFRICA – ORAPI PACIFIC – ORAPI AFRICA LTD
228 Albert Amon Road, Millenium Business Park Meadowdale Ext. 7, 1609 Gauteng
Tel.: +27 11 453 17 13 Fax: +27 11 453 32 79
Email: info@orapifrica.co.za

TAHITI / FRENCH POLYNESIA – ORAPI PACIFIC TECHNIPAC SARL
Z.I Vallée de la Tiapeuri, BP 1706, 98713 Papeete
Tel: +689 74 57 33 Fax: +689 45 04 04
Email: schatt.technipac@mail.pf

AMERICA

CANADA – ORAPI CANADA LTD
7521 Henri Bourassa Est, Montreal Quebec H1E 1N9
Tel: +1 514 735 32 72 Fax: +1 514 735 8550
Email: jeanf@orapi-canada.com