

SPRAYLAT

I N T E R N A T I O N A L

Manufacturing high performance coatings since 1992



Liquid Applied Maskants For Chemical Milling / Industrial Etching

Protectapeel Performance

Spraylat International Ltd's range of liquid applied maskants are available as water based formulations and have been developed and manufactured in-house.

Our range of maskant coatings have been formulated with the following criteria:

- Excellent Chemical Resistance
- Good Adhesion Properties
- Removed By Hand Peeling
- Easy to Cut to Shape by Hand or Laser
- Liquid Applied - Spray, Dip or Roller
- Formulated and Manufactured in the UK
- No Pull-Back, Etchant Creep or Loss of Adhesion at the Cut Edge

By using microwave dryers considerable advantages to the manufacturing process are achieved.

Microwave dryers offer users a far more time efficient, environmentally friendly and economical method of drying water based coatings compared to conventional gas or electric fired ovens.

Microwave dryers offer considerable benefits such as;

- 80% Less Energy Used
- 75% Less Carbon Emissions
- 80% Less Drying Time
- Increased Manufacturing Efficiency and Throughput
- Off-set 100% of the Capital Cost Against Corporation Tax



Environmental Protection & Safety

Protectapeel is liquid applied directly onto the surface by spray, dip or roller - no cutting to size, no off cuts, no wastage!

Solvent-based coatings are a source of potentially hazardous emissions called VOC levels (Volatile Organic Compounds) which when evaporating can damage the ozone layer. Two-pack (2K) maskants also use isocyanate, which is extremely harmful towards the people using them and are strongly linked to causing breathing problems such as asthma.

Spraylat International Ltd is committed to developing quality products that ensure the safety of employees, and creates a minimal impact on the environment.

Hydromask was developed after listening to our customer's and industry concerns surrounding the use of solvent-based or 2K products within the aerospace, automotive and engineering sector.

With this in mind, we are proud to say our water-based maskants contain 98% less VOC levels than traditional solvent-based maskants, and contain no isocyanate... guaranteeing you an environmentally friendly and safe maskant.



Protectapeel Products

Protectapeel Hydromask is a water-based, heat-curing, temporary peelable maskant designed for use during chemical etching/milling/pickling processes. Used and trusted in the industry since 1992, we have supplied maskants to Standex, Mold Tech, GKN and BAE.



Protectapeel Hydromask is suitable for use in a number of etchants including; hydrofluoric / hydrochloric acid or sodium hydroxide, also known as caustic soda. The product can be applied by spray, dip or roller and can be air dried or force dried using heat and moving air or a microwave dryer.

Spraylat International Ltd also offers Line Sealer, which is available in a water-based or UV curing form.



Protectapeel Hydromask S Physical Properties		Protectapeel Physical
Flash Point/°C	N/A	Flash Point/°C
pH	8.0 - 10	pH
Maximum VOC/gl-1	0	Maximum VOC/gl-1
Density/kg-l-1	1.09	Density/kg-l-1
Solids Content/%	40 ± 2	Solids Content/%
Adhesion/MPa	<2.5	Adhesion/MPa
Tensile Strength/MPa	>15	Tensile Strength/MPa
Elongation/%	>1000	Elongation/%
Spray Viscosity/cP @ 20°C	2500 ± 500	Spray Viscosity / cP @ 20°C

Protectapeel Line Sealer, is a water based coating that provides protection to prescribed knife and laser cut lines during the chemical milling process.

Protectapeel Line Sealer provides excellent resistance to acid solutions, and can also be used to repair or seal minor maskant defects, such as air bubbles, grit particles and scrapes.

Protectapeel Photomask Clear is a temporary peelable coating used in the engineering sector as a maskant for the chemical treatment of metals.

Photomask Clear has excellent resistance to abrasion and acid during treatments such as chemical etching, milling and pickling.

Applications

- Chemical Milling / Etching
- Anodising
- Plating

Features

- Water-Based Maskant
- Excellent Acid Resistance
- 2 Product Formulations
- Apply by Spray, Dip or Roller
- Air Dry or Heat Dry
- Excellent Surface Protection
- Easy to Scribe /Laser Cut after Cure
- Easy Removal by Hand Peeling
- Environmentally Friendly

Recommended Surfaces

- Titanium
- Steel
- Aluminium

Hydromask P Properties	Protectapeel Hydromask N Physical Properties	
N/A	Flash Point/°C	N/A
8.0 - 10	pH	8.0 - 10
0	Maximum VOC/gl-1	0
1.09	Density/kgl-1	1.09
40 ± 2	Solids Content/%	45 ± 2
<2.5	Adhesion/MPa	<2.5
>15	Tensile Strength/MPa	>5
>1000	Elongation/%	>400
2500 ± 500	Spray Viscosity/cP @ 20°C	6500 ± 500



Our Company

Spraylat International Ltd has been manufacturing peelable protective coatings called Protectapeel since 1992. These tough and durable coatings are applied as a liquid by spray, dip or roller and dry to form a skin-tight protective maskant.

Protectapeel's unique range of liquid applied coatings are used within a number of sectors, providing complete protection to a variety of different surfaces such as;

- Steel
- GRP
- Metals
- Acrylic
- Concrete
- Glass
- PVC-u

Protectapeel offers both internal and external protection for up to 12 months. When required Protectapeel is simply removed by hand peeling revealing clean and undamaged surfaces.



Manufacturing Capabilities

Spraylat International Ltd has been manufacturing peelable protective coatings in the United Kingdom since 1992.

During this time we have developed and refined our skills for formulating, developing, manufacturing and delivering high performance coatings.

We pride ourselves on the following manufacturing capabilities:

- Delivery on Time in Full
- Lead-Time of 5 Working Days
- Formulate, Develop and In-House Manufacture
- Ability to Supply in Various UOM - IBC, 200kg or 15kg Containers
- Kanban System*
- Control and Consistency

** Subject to agreeing parameters with each customer*





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