

**SPRAYLAT**  
INTERNATIONAL

*Over 21 years of manufacturing high performance coatings*



**Liquid Applied Maskants For Chemical Milling**

## The Way Forward

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, maskant coatings are specifically designed for use during Chemical milling or etching. The Protectapeel coatings are available as water based, solvent based and UV cure coatings and are suitable for use on most metals including titanium and aluminium.

Protectapeel coatings can be applied by spray, dip or roller. Once dry they form a peelable protective coating that provides complete protection from acid attack, allowing detailed and specific areas to be chemically milled quickly and accurately.



**PROTECTAPEEL**  
PAINT • PROTECT • PEEL

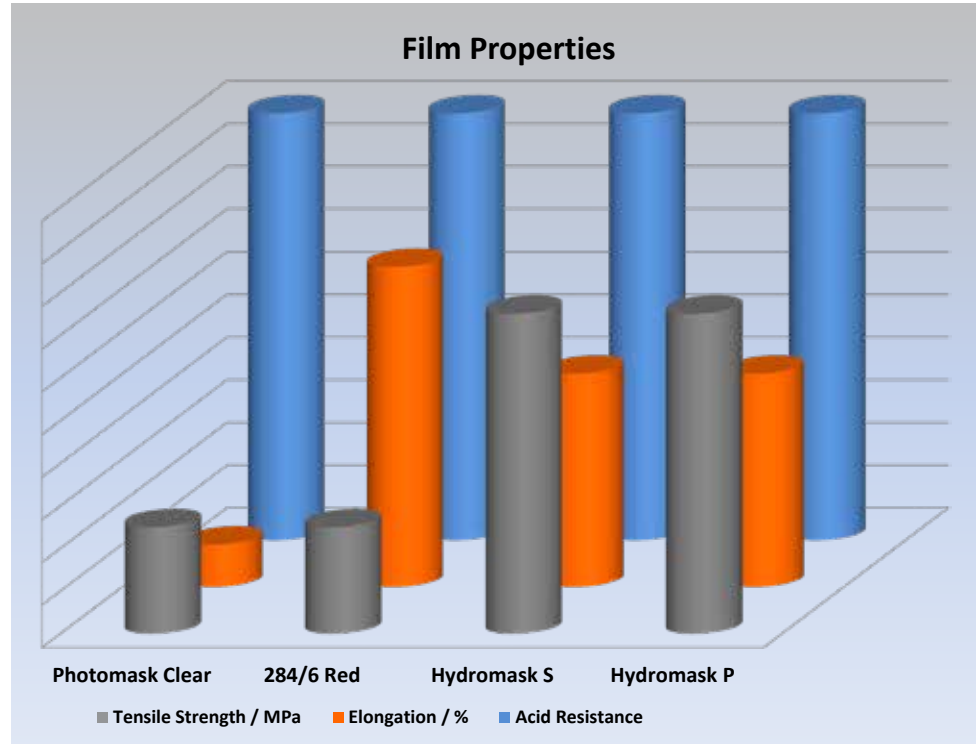


## Technical Capabilities

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

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

- Excellent acid resistance
- Good adhesion properties
- Removed by hand peeling
- Easy to cut to shape by hand
- Liquid applied - spray, dip or roller
- Formulated & Manufactured in the UK
- No pull-back, acid creep or loss of adhesion at the cut edge



Protectapeel Maskant Range Acid Resistance			
<i>Dry film thickness of 300 μm exposed to etchants for 2 hours at 40°C. For maskant to pass no degradation was observed under scan electron microscope (SEM).</i>	<b>An equimolar solution of 5 mol dm<sup>-3</sup> HF &amp; 5 mol dm<sup>-3</sup> HCl (aq)</b>	<b>10 % Nital (1.58 mol dm<sup>-3</sup> HNO<sub>3</sub> (EtOH))</b>	<b>Keller's Reagent (Aqueous solution containing 5 % of HF, HCl &amp; HNO<sub>3</sub>)</b>
<b>Photomask Clear</b>	✓	✓	✓
<b>284/6 Red</b>	✓	✓	✓
<b>Hydromask S</b>	✓	✓	✓
<b>Hydromask P</b>	✓	✓	✓

## Manufacturing Capabilities

Spraylat International Ltd has been manufacturing peelable protective coatings in the United Kingdom for over 21 years. 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 for our coatings
- Formulate, develop & manufacture in-house
- Ability to supply in various UOM – IBC, 200kg & 25kg
- Kanban System\*
- Control & consistency

\*subject to agreeing parameters with each customers



## Smart Protection

### Complete Range

Spraylat International Ltd offer the complete range of liquid applied maskants;

- Water based
- Solvent based
- UV cure

### Experience

Spraylat International Ltd has over 21 years of experience in formulating, developing and manufacturing peelable protective coatings.

### Trust

We have supplied coatings to Standex, Mold Tech, GKN & BAE

### Understanding Your Needs

We consult with existing customers, potential customers and industry leaders to develop the next generation of liquid applied maskant products.

### Technical Capabilities

All of our coatings are formulated and developed in-house and incorporate the latest, most up to date technology and materials.

### Manufacturing Capabilities

Our coatings are manufactured in-house to British Standard Quality so as to ensure full traceability throughout the supply-chain and manufacture.



## Protectapeel Hydromask

Protectapeel Hydromask is a water-based, heat-curing, temporary peelable maskant designed for use during chemical etching/milling/pickling processes.

Protectapeel Hydromask shows excellent resistance to acid and abrasion and can be applied by spray, roller or dip. The product can be air dried or force dried using a combination of heat and/or heat and moving air.

### Applications

- Chemical Milling/Etching
- Anodising
- Plating
- Fabrication
- Transportation
- Storage

### Features

- Water based maskant
- Excellent acid resistance
- 2 product formulations
- Apply by spray, dip or roller
- Air cure or heat cure
- Excellent surface protection
- Easy to scribe after cure
- Easy removal by hand peeling
- Environmentally friendly

### Recommended Surfaces

- Titanium
- Steel
- Aluminium

Hydromask S Physical Properties	
Flash Point/°C	N/A
pH	8.0-8.5
Maximum VOC/gl-1	0
Density/kgl-1	1.09
Solids Content/%	40±2
Adhesion/Mpa	< 2.5
Tensile Strength/MPa	>15
Elongation/%	>1000
Spray Viscosity/cP @ 20°C	4000 ± 500

## Protectapeel 284/6 Red

Protectapeel 284/6 Red is a solvent based, temporary, peelable maskant used during the chemical treatment of metals and has been used and trusted by the industry for over 21 years.



### Applications

- Chemical Milling/Etching
- Anodising
- Plating
- Transportation
- Fabrication
- Storage

### Features

- Excellent acid resistance
- Apply by spray, dip or roller
- Quick cure time
- Excellent surface protection
- Abrasion resistant
- Easy to trim after cure
- Easy removal by hand peeling

### Recommended Surfaces

- Titanium
- Steel
- Aluminium
- Glass

<b>284/6 Red Physical Properties</b>	
Flash Point/°C	< 0
pH	7-8
Maximum VOC/g-l-1	635
Density/kg-l-1	0.953
Solids Content/%	34 ± 2.5
Adhesion/Mpa	< 2.0
Tensile Strength/MPa	>5
Elongation/%	>1500
Spray Viscosity/cP @ 20°C	3250 ± 250

## Protectapeel Photomask Clear

Protectapeel Photomask Clear is a UV curing, temporary peelable maskant used in the engineering sector during the chemical treatment of metals. Photomask Clear will cure instantly when exposed to mercury vapour lamps. Use mercury vapour lamps, approximately 250 Watt/Inch<sup>2</sup> (80 Watt/cm<sup>2</sup>). Optimum output 200 to 400 nm. Product will dry in approximately 1 second under the UV lamps.

### Applications

- Chemical Milling/Etching
- Anodising
- Plating
- Storage
- Transportation
- Fabrication

### Features

- UV Cure
- Excellent acid resistance
- Apply by spray, dip or roller
- Excellent surface protection
- Abrasion resistant
- Cut to shape after cure
- Easy removal by hand peeling

### Recommended Surfaces

- Titanium
- Steel
- Aluminium
- Glass



### Photomask Clear Physical Properties

Flash Point/°C	N/A
pH	7-8
Maximum VOC/gl-1	40
Density/kgl-1	1.05
Solids Content/%	100
Adhesion/Mpa	< 1.0
Tensile Strength/MPa	>5
Elongation/%	>200
Spray Viscosity/cP @ 20°C	N/A



## Environmentally Smart

Spraylat International Ltd is committed to designing, manufacturing and providing our customers with Environmentally Smart products. We believe in providing our customers with smart solutions, smart products, smart ways to protect the environment and smart ways to help reduce carbon footprints.

Spraylat International believes in offering an environmentally friendly alternative to solvent based products.

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



## REACH

All products manufactured by Spraylat International Ltd comply with current REACH legislation.



## Contact Us

For more information please contact Spraylat International Ltd

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