**PRODUCT DATA SHEETS**  
**WATERBASED SELF CROSS-LINKING LACQUER**

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<th>A range of single-pack self-crosslinking lacquers which may be used over a sealer or as a coat-on-coat system.</th>
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<tr>
<td>Product</td>
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<tr>
<td>Waterbased HS SCL Lacquer Matt</td>
<td>44 095 2010</td>
</tr>
<tr>
<td>Waterbased HS SCL Lacquer Semi Matt</td>
<td>44 095 2020</td>
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<td>Waterbased HS SCL Lacquer Satin Matt</td>
<td>44 095 2030</td>
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<td>Waterbased HS SCL Lacquer Satin</td>
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<td>Waterbased Sealer Self-crosslinking (SCL)</td>
<td>44 095 2001</td>
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**Technical Data**

These self-crosslinking lacquers are high solids single pack materials which are formulated on an internally crosslinking aqueous polymer system to give the lacquer maximum durability. The sealer is based on the same polymer system as the lacquers, but contains various additives to aid sanding, etc.

The lacquers dry to a very durable finish with excellent flow, clarity and surface feel, which provides excellent chemical and physical properties, and are designed to meet FIRA (BS) 6250 Heavy/Severe Use rating.

Full cure and hardness should be achieved between 21 and 28 days after application, dependent on conditions.

These lacquers may be used solely, or in combination with solvent borne materials, to meet current environmental legislation on solvent emissions.

**Application**

The following stains are suitable for use under HS SCL Lacquers: Water Stains, Light Fast Stains, Earth Stains, Non-Fade Ground Stains.

Always stir the product well before use to ensure all settlement is reincorporated, as insufficient reincorporation will affect the sheen level. It is important to stir rather than shake as shaking does not always mix in the settlement well enough.

These lacquers are best applied at a temperature exceeding 15°C – lacquer, the spray shop or area being used, substrate being sprayed, and drying area should all be at this minimum temperature. Failure to comply with these conditions could result in poor film formation.

This range of lacquers is normally applied by spray methods – Conventional, Compliant, HVLP and Air Assisted Spray are all suitable.

For hand gun application a pressure of 2.5 - 3.5 bar (40 – 50 psi) is recommended, for Air Assisted Airless a fluid pressure of 1 - 3 bar and air pressure of 1 – 2 bar
These lacquers may be applied coat-on-coat or over the sealer – two or more coats are normally applied with a denib between coats with 320 grit paper (Lubrisil 201533132). The exception to this is with the Matt sheen, where it is recommended that a basecoat of higher sheen lacquer is used to maintain clarity of the system. Ensure equipment is stainless steel to prevent corrosion by the water in the lacquer.

### Drying Time

The drying of this range of lacquers is greatly assisted by air movement which takes the water vapour away quickly. Areas of high humidity should be avoided. Temperature should be at a minimum of 15°C for optimum drying. Under the above conditions the following criteria should be met:

- **Touch dry:** 15 - 20 minutes
- **Sanding/recoating:** 60 - 90 minutes.
- **Packing:** A minimum of overnight

It is recommended to allow a minimum of 7 days before finished articles are put into use. Full clarity will be evident after 7-14 days drying.

### Coverage

The coverage will depend on the type and absorbency of the substrate and the application method but should be an average of 6 - 8 m² per litre.

### Thinners

These lacquers are supplied at a ready for use viscosity and should not normally require thinning. Should it be deemed necessary to thin, water should be used, but exercise care as a little water will thin the lacquer quickly - definitely use no more than 5%.

### Equipment Cleaning

Equipment should be cleaned with water immediately after use. Dried lacquer can be removed with Acetone (09 702 8063).

A guidance sheet with instructions for changing from solvent borne lacquer to water based lacquer and back again is available on request.

### Physical Constants

- **VOC level:** 80g/litre
- **Viscosity:** 45secc/B4/25°C

### Packaging

This range of lacquers is available in 5 litre and 25 litre containers as standard.

### Storage

- Protect from frost – store above 5°C, if the lacquer freezes, the polymer will be damaged.
- There is no fire risk with these products.

### Health and Safety

Refer to Mylands Self Cross-Linking Lacquer MSDS before use.

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For further information visit our website [www.mylands.co.uk](http://www.mylands.co.uk) or contact us: +44 (0)208 670 9161 sales@mylands.co.uk