



# SUPER LASTIC S600

## High performance UV-resistant polyurethane hybrid waterproofing

One-component, low VOC, liquid applied waterproofing membrane, highly elastic and UV resistant. Seals roof leaks and extends the roof service life.

### FEATURES/BENEFITS

- Eco-friendly with low VOC / Non-toxic
- UV-resistant – designed for exposed waterproofing areas
- Ultra-high bond/elastic properties designed for superior crack-bridging properties
- Easy application to minimize site application errors
- Enhanced durability with polyurethane modified formulation which increases the service life

### APPLICATION AREAS

- Exposed roofs
- Car porch roofs
- Podiums
- Metal roofs
- RC flat roofs

### PRODUCT DATA

Appearances / Colours	Grey / White (Custom colours available upon request)
Packaging	20kg
Storage	12 months from date of production
Storage Condition	Dry conditions at temperature between 5 °C – 35 °C

### TECHNICAL DATA

Origin	Polyurethane Hybrid	
Density	1.15 ± 0.05	
Solid Content	~ 50% by volume	
Service Temperature	5°C to +80°C (High build system)	
Tensile Strength	~ 1.0 N/mm <sup>2</sup> (Standard system) ~ 4.0 N/mm <sup>2</sup> (High build system)	ASTM D412
Elongation at Break	~ 300% (Standard system) ~ 70% (High build system)	ASTM D412
Solar Reflective Index (SRI)	≥ 78 (Colour: White)	
Volatile Organic Content (VOC)	< 100 g/l	

## SUBSTRATE PRIMING REQUIREMENT

<b>Substrate</b>	Primer
<b>Concrete</b>	Super Lastic S600 + 10% water
<b>Solid Content</b>	Super Lastic S600 + 10% water
<b>Service Temperature</b>	Super Lastic S600 + 10% water
<b>Tensile Strength</b>	Metal Primer
<b>Elongation at Break</b>	Subject to adhesion & compatibility

## APPLICATION CONDITIONS

<b>Substrate Temperature</b>	8 - 35°C
<b>Ambient Temperature</b>	8 - 35°C
<b>Substrate Moisture Content</b>	<6% moisture content with no rising moisture. No standing water/condensation on the substrate
<b>Relative Air Humidity</b>	Max. 80%
<b>Dew Point</b>	Surface temperature must be + 3°C above dew point

## OVER-COATING

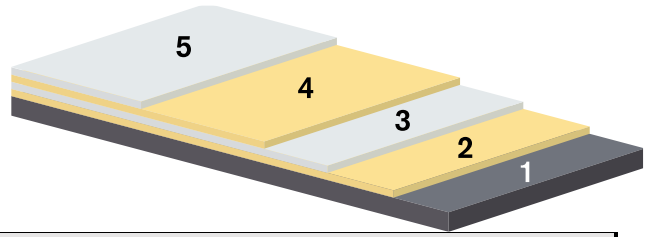
<b>Primer</b>	Super Lastic S600 + 10% water	2 hours
<b>1st Layer</b>	Super Lastic S600	6 hours
<b>2nd Layer with Reinforcement</b>	Super Lastic S600 + Super Fibre R100	12-24 hours
<b>Final Layer</b>	Super Lastic S600	12-24 hours
<b>Full Cure</b>	Super Lastic S600	2-4 days
<b>Rain Resistant</b>	Super Lastic S600	2-8 hours

*\*Above values are based on 25°C & 50% RH*

## SYSTEM BUILD UP

### (A) High Build System

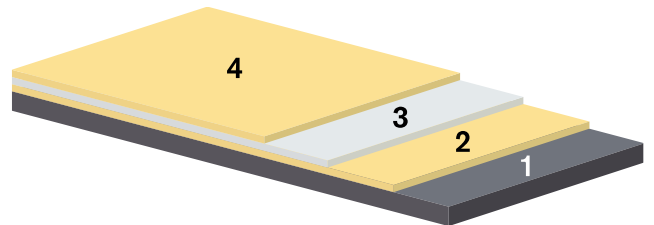
Fortified with Super Fibre R100 reinforcement to further enhance the tensile strength & durability of the standard system. It is highly recommended for large roof areas.



No.	Steps	Description	Consumption/m <sup>2</sup>
1	Substrate	Concrete / Screed	-
2	Primer	Super Lastic S600 +10% water	~0.3 - 0.4 kg/m <sup>2</sup>
3	1 <sup>st</sup> Coat	Super Lastic S600	~0.4 - 0.5 kg/m <sup>2</sup>
4	Reinforcement	Super Lastic S600 + Super Fibre R100 + 1 layer Super Fibre R100	~0.4 - 0.5 kg/m <sup>2</sup>
5	Final Coat	Super Lastic S600	~0.4 - 0.5 kg/m <sup>2</sup>
<b>Total consumption</b>			<b>~1.5 - 1.9 kg/m<sup>2</sup></b>

### (B) Standard System

An economic solution with good performance & waterproofing function. Highly recommended for small areas such as small RC hoods, copings, and so on.



No.	Steps	Description	Consumption/m <sup>2</sup>
1	Substrate	Concrete / Screed	-
2	Primer	Super Lastic S600 +10% water	0.4 kg/m <sup>2</sup>
3	1 <sup>st</sup> Coat	Super Lastic S600	0.5 kg/m <sup>2</sup>
4	Final Coat	Super Lastic S600	0.5 kg/m <sup>2</sup>
<b>Total consumption</b>			<b>~1.4 kg/m<sup>2</sup></b>

## SUBSTRATE

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New concrete should be cured for at least 28 days and should have a pull off strength  $\geq 1.5 \text{ N/mm}^2$ . Cement or mineral based substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and to achieve an open textured surface. Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed. Substrate must have sufficient gradient for surface water to run off easily without ponding water.

## TOOLS

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- Brush: With thick hair brush, or
- Roller: With a short-piled lamb skin roller, or
- Airless Spray Machine: Used only for the standard system.

For spray-applied application, minimum 2 layers with criss-cross direction application. For best performance, the pump should have the following parameter:

- min. pressure: 220 bar
- min. output: 4.1 L/min
- min.  $\varnothing$  nozzle: 0.83 mm (0.033 inch).

## APPLICATION

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Prior the application of Super Lastic S600, all right-angled corners should be installed with angle fillets using Dri-Grout 225, and any possible weak areas must be treated with Dri-Tape J50, self-adhesive waterproofing joint tape, or Super Fibre R100, chopped strand fibre reinforcement.

*\*Please refer to work method statement for more details*

### High Build System:

Super Lastic S600 is applied in combination with Super Fibre R100:

1. Apply primer by adding 10% clean water to Super Lastic S600. Allow to dry.
2. Apply 1st coat Super Lastic S600 within overcoating time.
3. Apply 2nd coat ( $\sim 0.4 - 0.5 \text{ kg/m}^2$ ) of Super Lastic S600, then roll in the Super Fibre R100 and ensure that there are no bubbles or creases. Overlapping of the Super Fibre R100 should be min. 50mm. It is highly recommended to carry out just  $1 \text{ m}^2$  per time for least experienced applicators. Ensure application is done within overcoating time.
4. Apply final coat of Super Lastic S600. Ensure sufficient material is applied to embed Super Fibre R100. Surface should be smooth after application. Ensure application is done within overcoating time.

### Standard System:

1. Apply primer by adding 10% clean water to Super Lastic S600. Allow to dry.
2. Apply 1st coat Super Lastic S600 within overcoating time.
3. Apply final coat of Super Lastic S600. Ensure application is done within overcoating time.

*Note: Always begin waterproofing work at areas with detailing. Once detailing is completed, proceed to waterproof the horizontal surface. As a rule of thumb, the previous layers must be cured & tack-free before the application of the consecutive layer(s).*

*\*All joints should be reinforced with Super Fibre R100 / Dri-Tape J50.*

## LIMITATIONS

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- Ensure that temperature does not drop below 8°C and that relative humidity does not exceed 80% until the membrane has fully cured.
- Do not apply on substrates with rising moisture. Always apply during falling ambient and substrate temperature. If applied during rising temperatures pin holes may occur from rising air.
- The coating must be thoroughly dry and free of pinholes before applying next layer.
- Do not allow temporary ponding to remain between coats on any horizontal surfaces or until the final coating has totally cured. Brush or mop surface water away during this time.
- Do not apply on roofs subject to long-term water ponding with subsequent periods of frost. In cold climatic zones for Roofing structures with a pitch of less than 3% appropriate measures must have to be considered.
- Do not apply directly on insulation boards.
- Protect the waterproofing 48 hours after the final coat. Do not expose waterproofing for pro-long period of time.

## HEALTH & SAFETY

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For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## LEGAL NOTE

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The information, and, in particular, the recommendations relating to the application and end-use of these products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance to the manufacturer recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.