



# 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



**DRITECH CHEMICALS SDN. BHD. (1184082-K)**

A-13-02, Atria SOFO Suite, Jalan SS 22/23, Damansara Jaya, 47400, Petaling Jaya, Selangor, Malaysia  
TEL: +603 7499 2178, FAX: +603 8727 1786

### **Product Data**

Appearances / Colors	Grey / White (Custom colours available upon request)
Packaging	20kg Plastic pails
Storage	12 Months from date of production
Storage Condition	Dry conditions at Temperature between 5-35 °C

### **Technical Data**

Origin	Polyurethane Hybrid	
Specific Gravity	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 Requirements**

<b>Substrate</b>	<b>Primer</b>
Concrete	SUPER LASTIC S600 + 10% water
Brick/stone	SUPER LASTIC S600 + 10% water
Slate/Tiles, etc	SUPER LASTIC S600 + 10% water
Metals	Metal Primer
Paints/coating	Subject to adhesion & compatibility

### **Application conditions**

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

### **Over Coating Time**

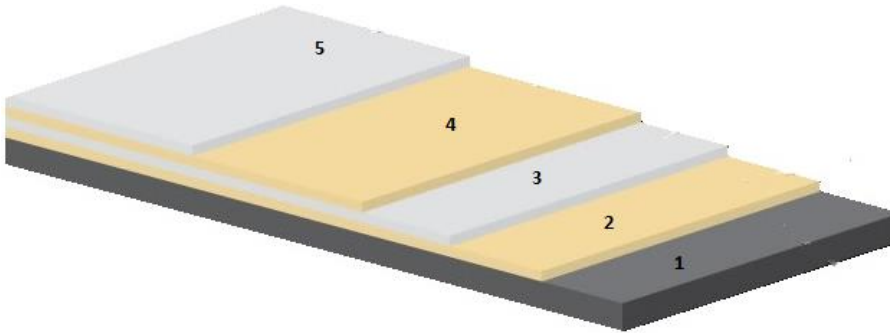
Primer	SUPER LASTIC S600 + 10% water	2 hours
1 <sup>st</sup> layer	SUPER LASTIC S600	6 hours
2 <sup>nd</sup> layer with reinforcement	SUPER LASTIC S600 + SUPER FIBRE mat	12-24 hours
Final Layer	SUPER LASTIC S600	12-24 hours
Full Cure	SUPER LASTIC S600	2-4 days
Rain Resistant	SUPER LASTIC S600	2-8 hours

❖ Based on relative humidity at 50% & +20°C ambient temperature

**System Build Up**

a) High build System:

**SUPER LASTIC S600** high build system is fortified with **SUPER FIBRE** reinforcement to further enhance the tensile strength & durability of the standard system. It is highly recommended for large roof areas. Consumption may vary from 1.5-2.0 kg/m<sup>2</sup> subjected to substrate quality.



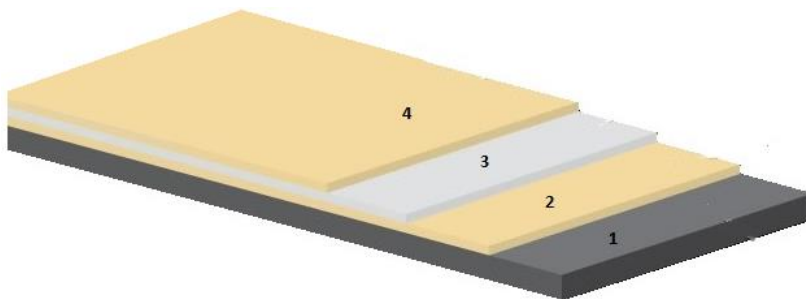
- 1) Substrate (base)
- 2) Primer
- 3) 1<sup>st</sup> Coat
- 4) Reinforcement
- 5) Final Coat

Steps	Description	Consumption/m <sup>2</sup>	Consumption/ft <sup>2</sup>
Substrate	Concrete/Screed	Clean/No debris	Clean/No debris
Primer	<i>SUPER LASTIC S600</i> + 10% water	0.4 kg/m <sup>2</sup>	0.04 kg/ft <sup>2</sup>
1 <sup>st</sup> Coat	<i>SUPER LASTIC S600</i>	0.5 kg/m <sup>2</sup>	0.05 kg/ ft <sup>2</sup>
Reinforcement	<i>SUPER LASTIC S600</i> + <i>SUPER FIBRE</i> * <i>reinforcement</i>	0.5 kg/m <sup>2</sup> + 1 layer <i>SUPER FIBRE</i>	0.05 kg/ ft <sup>2</sup> + 1 layer <i>SUPER FIBRE</i>
Final Coat	<i>SUPER LASTIC S600</i>	0.5 kg/m <sup>2</sup>	0.05 kg/ ft <sup>2</sup>
Total consumption		<b>~2.0 kg/m<sup>2</sup></b>	<b>~0.19 kg/ ft<sup>2</sup></b>

\*Note: The consumption above is based on *SUPER FIBRE R225* (225gsm fibre mat). When using lower density fibre mats (e.g. *SUPER FIBRE R100*), the consumption will decrease.

b) Standard System:

**SUPER LASTIC S600** standard system offers an economy solution with good aesthetical value & waterproofing function. Consumption may vary from 1.0-1.4 kg/m<sup>2</sup> subjected to substrate quality.



- 1) Substrate (base)
- 2) Primer
- 3) 1<sup>st</sup> Coat
- 4) Final Coat

Steps	Description	Consumption/m <sup>2</sup>	Consumption/ft <sup>2</sup>
Substrate	Concrete/Screed	Clean/No debris	Clean/No debris
Primer	<i>SUPER LASTIC S600</i> + 10% water	0.4 kg/m <sup>2</sup>	0.04 kg/ft <sup>2</sup>
1 <sup>st</sup> Coat	<i>SUPER LASTIC S600</i>	0.5 kg/m <sup>2</sup>	0.05 kg/ ft <sup>2</sup>
Final Coat	<i>SUPER LASTIC S600</i>	0.5 kg/m <sup>2</sup>	0.05 kg/ ft <sup>2</sup>
Total consumption		<b>~1.4 kg/m<sup>2</sup></b>	<b>~0.13 kg/ ft<sup>2</sup></b>

### SUBSTRATE

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.

### APPLICATION

Prior the application of **SUPER LASTIC S600**, all corners or possible weak areas must be treated with **DRI-TAPE J50** or **SUPER FIBRE**, self-adhesive waterproofing joint tape/fibre-glass reinforcement.

- ❖ Please refer to work method statement for more details

### High Build System:

**SUPER LASTIC S600** is applied in combination with **SUPER FIBRE** reinforcements

1. Apply primer ( $\sim 0.4 \text{ kg/m}^2$ ) of **SUPER LASTIC S600 +10% water**
2. Apply 1<sup>st</sup> coat ( $\sim 0.5 \text{ kg/m}^2$ ) of **SUPER LASTIC S600** after 1-2hours of primer coat
3. Apply 2<sup>nd</sup> coat ( $\sim 0.5 \text{ kg/m}^2$ ) of **SUPER LASTIC S600** then roll in the **SUPER FIBRE** and ensure that there are no bubbles or creases. Overlapping of the **SUPER FIBRE** minimal 5 cm. It is highly recommended to carry out just  $1\text{m}^2$  per time for least experienced application. Apply 4-6hours after 1<sup>st</sup> layer
4. Apply final coat ( $\sim 0.5 \text{ kg/m}^2$ ) of **SUPER LASTIC S600**. Rule of thumb is to have sufficient materials to embed **SUPER FIBRE**. Surface should be smooth after application. Apply 12-24hours after the 2<sup>nd</sup> layer.

### Standard System:

**SUPER LASTIC S600** is applied without reinforcements

1. Apply primer ( $\sim 0.4\text{kg/m}^2$ ) of **SUPER LASTIC S600 +10% water**
2. Apply 1<sup>st</sup> coat ( $\sim 0.5\text{kg/m}^2$ ) of **SUPER LASTIC S600** with proper tools, apply 1-2hours after primer coat
3. Apply final coat ( $\sim 0.5\text{kg/m}^2$ ) of **SUPER LASTIC S600** after 4-6hours of 1<sup>st</sup> coat.

- ❖ Please note, always begin with details prior starting with waterproofing the horizontal surface. For details follow step 1-5. As a rule of thumb, the previous layers must be cured & tack-free before the application of the consecutive layers.
- ❖ All joints should be reinforced with **SUPER FIBRE** or **DRI-TAPE J50**.
- ❖ Waiting time between layers are based on 20-30°C with 50% relative humidity

### TOOLS

Brush: With thick hair brush /Roller: With a solvent resistant, short-piled lamb skin roller / Airless Spray Machine: Used only for the standard systems. For spray applied application, minimum 2 layers with crisscross direction application. For best performance, the pump should have the following parameter: min. pressure: 220 bar / min. output: 5.1 l/min / min.  $\varnothing$  nozzle: 0.83mm (0.033 inch)

### **LIMITATIONS**

- ❖ 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.
- ❖ Ensure that temperature does not drop below 8°C and that relative humidity does not exceed 80% until the Membrane has fully cured.
- ❖ Ensure that the coating is thoroughly dry and the surface is without pinholes before applying any top coat.
- ❖ 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. Not recommended for high pedestrian traffic. In case pedestrian traffic is unavoidable, it shall be covered with appropriate elements such as tiles, stone plates or wooden panels.

### **HEALTH & SAFETY**

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**

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.