



SUPER LASTIC S900

High tensile polyurethane modified waterproofing

One-component, low VOC, liquid applied waterproofing membrane, highly elastic, seamless, crack bridging membrane for roof, balconies, floor slab, RC gutter, patio, foundations, retaining wall.



FEATURES/BENEFITS

- ✓ Eco-friendly with Low VOC / Non-toxic formulation
- ✓ Ultra-high bond/ elastic properties designed for superior crack-bridging properties
- ✓ Easy application to minimize site application errors
- ✓ Enhanced durability with polyurethane modified formulation hence increases the service life

APPLICATION AREAS

- ✓ Roofs
- ✓ Balconies
- ✓ Toilets
- ✓ Kitchens
- ✓ Retaining walls
- ✓ Walkways
- ✓ Podiums



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Product Data

Appearances / Colors	Black
Packaging	20kg Plastic pails
Storage	12 Months from date of production
Storage Condition	Dry conditions at temperature between 5-35 Degree Celsius

Technical Data

Origin	Polyurethane modified bitumen	
Density	1.08kg/l at +23°C	
Solid Content	~ 50% by volume	
Service Temperature	-5°C to +40°C	
Tensile Strength	~ 4.3 N/mm ²	ASTM D412
Elongation at break	>250%	ASTM D412

Application conditions

Substrate temperature	8-35 Degree Celsius
Ambient Temperature	8-35 Degree Celsius
Substrate	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

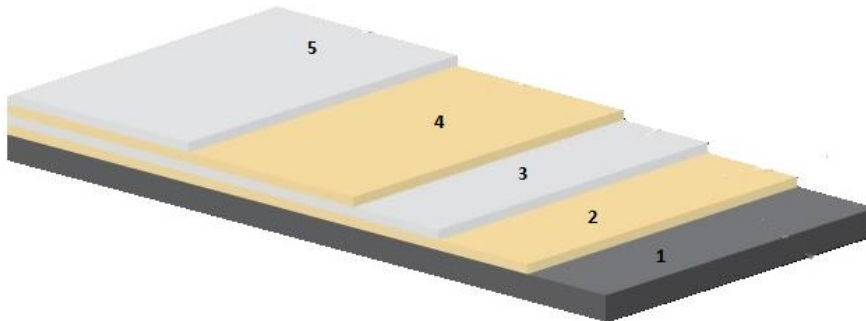
1 st coat to primer	5-15minutes for outdoors / 30minutes for indoors
Final coat to reinforcement	Minimum 4 hours
Protective screed/mortar/concrete	48 hours
Tack free	12 hours at 25°C / 50% RH
Dew point	Surface temperature must be +3 Degree Celsius above dew point

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

SYSTEM BUILD UP

a) High build System:

SUPER LASTIC S900 high build system is fortified with **SUPER FIBRE R225/R120** 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/m² subjected to substrate quality.



- 1) Substrate (base)
- 2) Primer
- 3) 1st Coat
- 4) Reinforcement
- 5) Final Coat

Steps	Description	Consumption/m ²	Consumption/ft ²
Substrate	Concrete	Clean/No debris	Clean/No debris
Primer	<i>SUPER LASTIC S900</i> (dilute 10% water)	0.2 kg/m ²	0.02 kg/ft ²
1 st Coat	<i>SUPER LASTIC S900</i>	0.7 kg/m ²	0.07 kg/ ft ²
Reinforcement	<i>SUPER LASTIC S900 + SUPER FIBRE R225</i>	0.5 kg/m ² + 1 layer SUPER FIBRE R225	0.05 kg/ ft ² + 1 layer SUPER FIBRE R225
Final Coat	<i>SUPER LASTIC S900</i>	0.5 kg/m ²	0.05 kg/ ft ²

Total consumption for 1.0 mm thickness

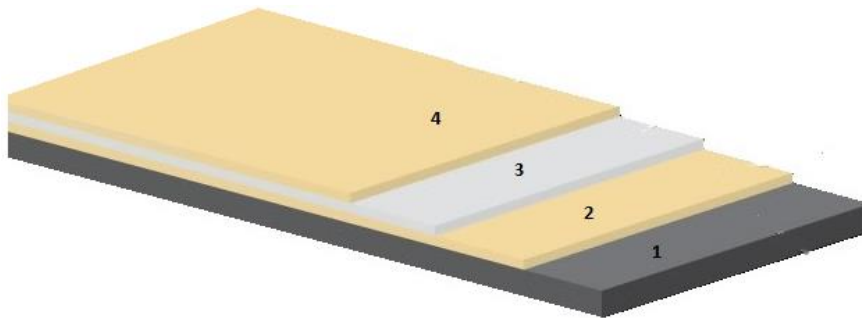
~1.9 kg/m²

~0.19 kg/ ft²

❖ **Approximate coverage = 10m² or 107ft² per 20kg pail**

b) Standard System:

SUPER LASTIC S900 standard system offers an economy solution with good values & waterproofing function. Highly recommended for small areas such as bathrooms, wet areas, etc. Consumption may vary from 1.0-1.5 kg/m² subjected to substrate quality.



- 1) Substrate (base)
- 2) Primer
- 3) 1st Coat
- 4) Final Coat

Steps	Description	Consumption/m ²	Consumption/ft ²
Substrate	Concrete/Screed	Clean/No debris	Clean/No debris
Primer	<i>SUPER LASTIC S900</i> (dilute 10% water) or <i>SUPER PRIMER F-1</i>	0.2 kg/m ²	0.02 kg/ft ²
1 st Coat	<i>SUPER LASTIC S900</i>	0.6 kg/m ²	0.06 kg/ft ²
Final Coat	<i>SUPER LASTIC S900</i>	0.7 kg/m ²	0.07 kg/ft ²
Total consumption for 1.0 mm thickness		~1.5 kg/m ²	~0.15 kg/ft ²

❖ **Approximate coverage = 13m² or 140ft² per 20kg pail**

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 S900**, all corners or possible weak areas must be treated with **DRI-TAPE J50/SUPER FIBRE R225**, self-adhesive waterproofing joint tape/fibre-glass reinforcement.

- ❖ Please refer to work method statement for more details

High Build System:

SUPER LASTIC S900 is applied in combination with **SUPER FIBRE R225** reinforcements

1. Apply primer ($\sim 0.2 \text{ kg/m}^2$) of **SUPERLASTIC S900** (*dilute 1 part:1part water*)
2. Apply 1st coat ($\sim 0.7 \text{ kg/m}^2$) of **SUPER LASTIC S900** after 1-2hours of primer coat
3. Apply 2nd coat ($\sim 0.5 \text{ kg/m}^2$) of **SUPER LASTIC S900** then roll in the **SUPER FIBRE R225** and ensure that there are no bubbles or creases. Overlapping of the **SUPER FIBRE R225** minimal 5 cm. It is highly recommended to carry out just 1m^2 per time for least experienced application. Apply 4-6hours after 1st layer
4. Apply final coat ($\sim 0.5 \text{ kg/m}^2$) of **SUPER LASTIC S900**. Rule of thumb is to have sufficient materials to embed **SUPER FIBRE R225**. Surface should be smooth after application. Apply 12-24hours after the 2nd layer.

Standard System:

SUPER LASTIC S900 is applied without reinforcements

1. Apply primer ($\sim 0.2\text{kg/m}^2$) of **SUPER LASTIC S900 +10% water** or apply **SUPER PRIMER F-1** ($\sim 0.2\text{kg/m}^2$) for wet rooms
2. Apply 1st coat ($\sim 0.7\text{kg/m}^2$) of **SUPER LASTIC S900** with proper tools, apply 1-2hours after primer coat
3. Apply final coat ($\sim 0.7\text{kg/m}^2$) of **SUPER LASTIC S900** after 4-6hours of 1st 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 R225 / 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.
- ❖ 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 48hours after the final coat. Do not expose waterproofing for pro-long period of time.
- ❖ It is highly recommended to have 1-2 layers of polyethylene sheets on top of the waterproofing membrane before screeding as a separation layer. Minimum screed thickness should follow BS 8204-1:2002
- ❖ Upturn of 300mm is sufficient for shear walls / plastered brick walls/light weight blocks, etc. **SUPER PRIMER F1** can act as a water barrier & bonding agent for wall applications. Please contact DRITECH CHEMICALS for more information
- ❖ Dry wall joints should be treated with water resistant joint compound such as **STUCCO FLEX+** and **DRI-TAPE J50** at critical areas such as floor to wall joints or wall to wall joints with angles.

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.