

# STREETSCAPE FBC ECO PERMEABLE



Larsen Streetscape FBC permeable ECO is a fine bedding concrete specifically designed to meet or exceed the requirements of BS 7533 part 101. Manufactured from a controlled blend of aggregate, cement & GGBS it only requires the addition of water to produce a fully BS 7533 part 101 (code of practice for the structural design of pavements using modular paving units) compliant bedding mortar for the laying course.

**BS 7533 Part 101 COMPLIANT**

**PERMEABLE**

**ECO – REDUCED CARBON**

**25 KG BAGS**

**1.2 TONNE BULK BAGS**



**TECHNICAL INFORMATION**

PRODUCT INFORMATION	
<b>FORM</b>	Granular
<b>COLOUR</b>	Grey
<b>MAX AGGREGATE</b>	6 mm
<b>HAZARD INFORMATION:</b>	Contains cement. Consult Safety Datasheet before use
<b>CLEANING:</b>	Clean tools, equipment, etc. using warm water. Mechanical means are necessary when the product has set.
<b>PACKAGING:</b>	25 kg multilayer paper. 1.2MT Big Bag
<b>STORAGE INSTRUCTIONS:</b>	Store unopened containers in a dark, cool, dry location away from extremes of temperature
<b>SHELF LIFE:</b>	Minimum 6 months in unopened manufacturer's containers
APPLICATION INFORMATION	
<b>WATER DEMAND</b>	1.8 to 2.0 L per 25 kg
<b>APPLICATION TEMPERATURE</b>	+3°C to +30°C
<b>WORKING TIME</b>	Approx. 60 minutes
<b>BED THICKNESS</b>	30 – 75 mm per pass
<b>TIME TO TRAFFIC</b>	Light Foot Traffic - after 12 hours Vehicle Traffic - after 1-2 days (depending on site conditions)
<b>YIELD</b>	13 L (approximately) per 25 Kg bag
TYPICAL PERFORMANCE INFORMATION	
Independent Third Party Test Results are pending, the results listed below are from our internal reports	
<b>DRY HARDENED DENSITY</b>	2100 - 2200kg/m <sup>3</sup>
<b>SHRINKAGE</b>	0.02 – 0.04%
<b>COMPRESSIVE STRENGTH</b>	≥ 35 MPa
<b>FLEXURAL STRENGTH</b>	≥ 6 MPa
<b>BOND STRENGTH</b>	> 2.0 MPa (with priming slurry)
<b>MODULUS OF ELASTICITY</b>	17000 - 18000 MPa

## **DIRECTIONS FOR USE**

### **PREPARATION**

The base should meet the requirements of BS 7533 part 101 dependent on the type and level of traffic. All substrates must be suitable to receive the bedding mortar as per current good working practices. All substrates for bound construction should be clean, thoroughly sound and free from oils, grease, dust, loose particles or any other contaminants which may interfere with adhesion. They should be pre-soaked but free from standing water.

### **BONDING MORTAR**

Larsen Streetscape PS ECO (bonding mortar). Bonding mortar is necessary in bound system B as per BS 7533 part 101. When measured in combination with the bedding mortar, Larsen Streetscape PS ECO bonding mortar should be applied to the base and underside of the paving element in order to provide an adhesion bond strength of  $\geq 2.0$  MPa; this is from the base to the bedding mortar and paving element to bedding mortar.

### **MIXING**

Add 1.8 L of water per 25 kg bag to achieve the desired workability. Mix with a suitable mechanical mixer for a minimum of 3 minutes. Streetscape FBC Eco Permeable is designed to be used semi dry / moist consistency at the above water ratios. Should extra water be added to gain a more pliable workability, the hardened properties of the mix will be reduced. If too little water is used, the bedding will be too dry to bind together, achieve correct compaction or hydrate the binder element. Workability should be checked regularly using the "snowball" test. Do not remix or wet up FBC which has gone off.

### **APPLICATION**

Bedding depths of between 30 mm and 75 mm can be placed in a single layer. Greater depths can be achieved by placing successive layers with each layer being sufficiently compacted prior to laying another pass. When applying another layer to a layer which has set, it should first be primed with Larsen Streetscape PS ECO bonding mortar. Freshly laid areas should be protected from foot traffic for a minimum of 12 hours, vehicular traffic for a minimum of 24 hours, both dependent on temperature and site conditions.

### **RESTRICTIONS**

In adverse weather conditions, paving should not be laid or jointed if the temperature is below 3°C on a falling thermometer or 1°C on a rising thermometer. The surface of the substrate should not be frozen before bedding and fresh bedding protected from inclement weather or freezing until sufficient strength is achieved for damage not to occur. All work should be carried out following guidance in BS 7533.

### **QUALITY**

Larsen Streetscape FBC permeable ECO is manufactured in a plant controlled under an integrated management system third party certified to BS EN ISO 9001 & BS EN ISO 14001. All orders are sold subject to our current terms of sale and delivery. The information and recommendations provided are given in good faith based on our current knowledge and experience of the products when properly stored, handled and applied in accordance with current best practice, national standards and our recommendations.