

# STRUCTURAL BEDDING MORTAR



Larsen SBM Structural Bedding Mortar is an easy to use packing and bedding mortar for use with precast units. SBM is manufactured from a blend of specially selected aggregates, Portland cement and additives (including shrinkage reducing components) to provide an easily worked and finished mortar. It is designed for use primarily as a packing and bedding mortar between precast concrete units to provide a smooth flush finish. SBM can also be used in other applications where a high strength fill, structural support or dry pack mortar is required.

## **HIGH EARLY AND ULTIMATE STRENGTH**

**>50 N/MM<sup>2</sup> IN 28DAYS**

**EASY TO USE**

**CHLORIDE FREE**

**TECHNICAL INFORMATION**

PRODUCT INFORMATION	
<b>FORM</b>	Granular
<b>COLOUR</b>	Grey
<b>MAX AGGREGATE</b>	3mm
<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
<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>	3.0 to 3.25L per 25kg
<b>APPLICATION TEMPERATURE</b>	+5°C to +30°C
<b>WORKING TIME</b>	Approx. 60 minutes
<b>APPLICATION THICKNESS</b>	10 to 100mm (For thicker sections bulk out with clean 6mm stone at a rate of 1:1)
<b>YIELD</b>	Approx. 12.4 L per 25kg bag
TYPICAL PERFORMANCE INFORMATION	
<b>SETTING TIME</b>	ca. 5hrs
<b>PLASTIC DENSITY</b>	ca. 2275 kg/m <sup>3</sup>
<b>DRY HARDENED DENSITY</b>	ca. 2150 kg/m <sup>3</sup>
<b>COMPRESSIVE STRENGTH</b>	7 day >45 MPa 28day >55 MPa
<b>FLEXURAL STRENGTH</b>	28day >7 MPa

## DIRECTIONS FOR USE

### PREPARATION

All surfaces must be sound, clean, and free from any loose or friable material. Concrete surfaces must be free of any contamination, including curing membranes or sealers. For maximum bond, mechanically roughen surfaces. All surfaces must be saturated with clean water but free from standing water. Remove all surface water immediately before the application. Bolt holes, etc. should be blown clean of any dust, dirt or debris, or standing water. Metal surfaces should be free from rust, grease, oil or other contamination. Removable shims should be lightly oiled or greased.

### MIXING

Mix each 25kg bag with 3.0-3.25L clean water. Structural Bedding Mortar should be mixed with the correct amount of water using a mechanical method, i.e. a low-speed drill and mixing paddle. The mortar should be mixed to a consistency suitable for the intended application. Do not mix more product than can be used in approx. 30 minutes.

### APPLICATION

Place the mortar in the prepared area and ensure it is fully compacted using a suitable tool. Allow the mortar to stiffen before finishing with a steel trowel. As with all concrete, exposed areas should be fully cured with application of an appropriate curing membrane (for example Larcore 90) , continuous water spray, polythene or damp Hessian.

### NOTE

Where SBM is used to fill lifting eye holes or effect cosmetic repairs it is beneficial to mix the product with Larsen SBR Bond diluted 3:1 with water to improve the bond.

### RESTRICTIONS

Poor application procedures can result in voids and can result in failure. Ambient and substrate temperatures should be above 5°C during application. Fresh mortar should be protected from frost until the grout has fully hardened. Adequate curing is required to prevent cracking and fresh mortar should be protected from excessive draughts or strong direct sunlight. When ambient or substrate temperatures are below 10°C, allow extra time for the material to harden before applying loads, lifting, tensioning bolts etc.

### QUALITY

This product is manufactured in a plant controlled under an integrated management system third party certified to BS EN ISO 9001 and BS EN ISO 14001.