

# **ULTRA LIGHT WEIGHT CONCRETE**

ultra performance | ultra quality | ultra innovation





### **DESCRIPTION**

This product can be created by the addition of either polystyrene beads (non-structural) or a lightweight aggregate (structural). These products, although both are lightweight have several important differences and these must be noted before ordering.

#### WHERE TO USE

### POLYSTYRENE LIGHT WEIGHT CONCRETE

(Non-structural)

- Insulation
- Leveling/Screeds
- · Void filling

### LIGHT WEIGHT AGGREGATE CONCRETE

(Structural)

- Structural light weight concrete requirements
- Architectural finishes eg. Cladding



### POLYSTYRENE LIGHT WEIGHT CONCRETE

(Non-structural)

- Exceptionally low densities are obtainable
- Superior insulation
- Can be hand packed
- Minimal compaction required
- Cost effective solution

## LIGHT WEIGHT AGGREGATE CONCRETE

(Structural)

• Structural strengths obtainable at lower densitiesTime saving with backfilling

### MINIMUM STANDARD FOR LIGHT WEIGHT CONCRETE

POLYSTYRENE LIGHT WEIGHT CONCRETE (Non-structural)	
Specified by Density	Lowest density [450-1000kg/m3 (3-5MPa)]
Cement Type	100% OPC where available
Aggregate Size	Polystyrene beads
Slump	+/- 60mm
LIGHT WEIGHT AGGREGATE CONCRETE (Structural)	
Can achieve up to 30MPa dependant on density requirements – (800kg/m3 – 1600kg/m3)	
Cement Type	100% OPC where available

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### NOTE

• Careful consideration has to be taken when matching density and strength.



### **IMPORTANT RECOMMENDATIONS**

Good standard concrete practice must be adhered to at all times, as per SANS 1200G. Proper curing is essential to create the conditions for crystalline growth within the concrete.

### **SAFETY PRECAUTIONS**

The use of safety goggles and gloves is recommended when placing concrete.







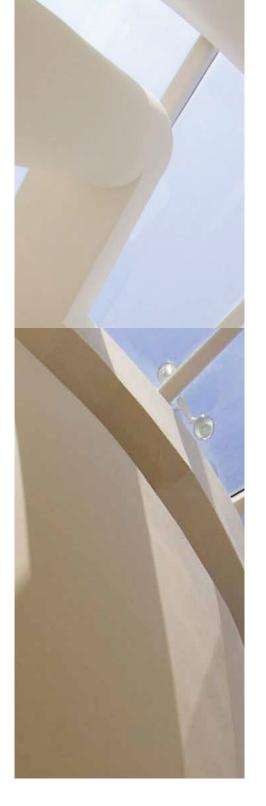
### **FIRST AID**

**EYES:** Immediately flush eyes, including under lids, with water for at least 15 minutes to remove all particles. If necessary, seek medical advice.

**SKIN:** Wash skin with cold water and a pH neutral soap as soon as possible, except where open wounds are visible. Attention should be paid to wounds and fresh scars which should be covered with protective paraffin gauze. Seek medical help in cases of prolonged contact with wet concrete.

*INGESTION:* Rinse mouth with clean water. If swallowing has occurred drink plenty of milk or water. Do not induce vomiting. Seek medical attention immediately.

**INHALATION:** Remove to fresh air. If symptoms persist seek medical attention.



### **CONTACT DETAILS**

FOR FURTHER INFORMATION, CONTACT THE LAFARGE TECHNICAL DEPARTMENT AT ANY OF THE CENTRES BELOW:

 Gauteng:
 (011) 253 4620
 Durban:
 (031) 275 7400
 Port Elizabeth:
 (041) 395 7700

 Cape Town:
 (021) 508 8000
 East London:
 (043) 726 9214
 George:
 (044) 870 7077

### **SALES AND ORDERS**

**HEAD OFFICE EASTERN REGION** Tel: (011) 657 0000 Tel: (031) 275 7400

**NORTHERN REGION SOUTHERN REGION** Tel: (011) 657 2222 Tel: (021) 508 8000

Lafarge South Africa 35 Westfield Road Longmeadow Business Estate Ext 11, Edenvale, 1609 Tel: 0860 LAFARG / 0860 523 274 or 0861 LAFARG / 0861 523 274

www.lafarge.co.za

Main fax: 086 631 0006

