

Ultra™ series

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

ADVANTAGES OF LIGHT WEIGHT CONCRETE

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 densities
- Time saving with backfilling

MINIMUM STANDARD FOR LIGHT WEIGHT CONCRETE

POLYSTYRENE LIGHT WEIGHT CONCRETE (Non-structural)	
Specified by Density	Lowest density [450-1000kg/m ³ (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/m ³ – 1600kg/m ³)	
Cement Type	100% OPC where available
Aggregate Type	Combination 19mm and light weight aggregate
Slump	+/- 75mm

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:

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