



# Politerm Blu

## EPS: Lightweight thermal insulating mortar

### DESCRIPTION

EPS beads which are treated with a chemical additive to enable the production of lightweight, thermal insulation mortars of various densities.

### QUALITY MANAGEMENT SYSTEM

ISOVER products are manufactured according to ISO 14001:2004.

### ENVIRONMENTAL SUSTAINABILITY

The Springs EPS facility is ISO 14001:2004 accredited. Less material, less energy and less emissions

- Zero ozone depleting potential (ODP)
- Zero global warming potential (GWP)

### FEATURES & BENEFITS

- Easy to mix, place and finish
- Cost effective
- Homogenous bead distribution gives good workability and predictable performance
- Good workability enables mixed material to be pumped 100m horizontally and 30m vertically
- No loss of workability, even when pumped long distances



- Mix design variable to produce densities from 200 to 1 000kg/m<sup>3</sup>
- Compatible with most finishing products and adhesives

### FIRE PROPERTIES

- Non-flammable - when tested to ASTM D 1692-68

### THERMAL PROPERTIES

K-value of 0.065 W/m.K to 0.1 W/m.K depending on density.

### APPLICATIONS

- Thermal insulation mortar for concrete roof decks, underground floor slabs, basement walls, swimming pools, etc.
- Lightweight filler for voids or leveling of floor slabs.
- Cavity fill for steel frame construction.

### DURABILITY

Long term to indefinite, subject to appropriate mix design and best practice in application methods.

### TOOLS NEEDED FOR INSTALLATION

Conventional concrete placing equipment.

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## INSTALLATION INSTRUCTIONS

- The material must be mechanically mixed in either a purpose made mixer/pump, conventional concrete mixer or truck-mixer or specialised mortar mixer/pump
- Placing and finishing equipment: as for normal concrete/screed application

## HANDLING & STORAGE

Bags should be stored in a clean, dry place away from items which could split or damage the bags.

## ARCHITECTURAL SPECIFICATION

Thermal insulation to concrete roof decks should be Politerm Blu, laid to falls at an average thickness of 100mm reducing to a minimum of 50mm at rainwater outlets. Preparation, mixing and curing should be carried out in strict accordance with the manufacturer's instructions. Subsequent application of waterproofing should not commence until the Politerm screed is free of residual moisture.



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