



RTU[®]
MORTAR / CONCRETE / PLASTER / SCREED

*ultra***bead**[®]
poured insulating screed

**POURED INSULATION
FOR FLOORING**

Delivering greater thermal efficiency,
productivity and economy.



Ultrabead® is a specially engineered thermal lightweight screed that improves the thermal performance of internal floors. This product is manufactured from a high-quality factory produced EPS bead that meets the BS EN 13163 standard criteria.

A One-Size-Fits-All Product

Ultrabead® is a poured insulating layer that offers a modern alternative to traditional insulating boards while providing improved thermal efficiency, productivity and economy to our customers. RTU has developed this highly technical product with insulating and lightweight properties to support a wide range of construction applications for floors and flat roofs.

Ultrabead® delivers a form of liquid engineering designed to encapsulate all service conduits, eliminating the thermal bridge and cold joints to create a uniformly insulated layer ready for the floor screed application.

In addition to being an improved option over PIR/ EPS insulation boards, Ultrabead's low density acts as a lightweight void filler that improves

any commercial building or home's acoustic performance. Also, the application of Ultrabead® is incredibly efficient. Only a single layer is required, which can be mixed, pumped and poured on-site as you need it, making it quicker to install, less labour intensive and cost-effective.

Quality

Ultrabead® is manufactured by RTU, using our advanced production technology. Our Quality and Environmental processes are compliant with ISO9001 and ISO14001. Quality Control procedures are in place at all stages of the manufacturing and installation process to ensure consistently high-quality product output. Expert installers install Ultrabead within our approved network.





Ultrabeed® Construction Applications

Ultrabeed® allows a wide range of construction applications due to its unique insulating and lightweight properties.

Insulated Floor

Replacement for traditional PIR/EPS insulation board.

Acoustic and Lightweight

Ultrabeed's low density provides a lightweight void filler, improving the acoustic performance of the building.

Insulated Roofing

Can be laid to falls as insulating layer on flat roofs.

Benefits of Ultrabeed®

- U-values range from 0.20 to 0.12 W/m²K
- Install up to 1,000m² per day
- Less labour intensive
- No cold bridging joints
- Highly durable
- Low environmental impact
- Improved airtightness
- Encapsulates service pipes & ducts on sub floor

Ultrabeed® Thickness	Perimeter Area Ratio (The floor area which is exposed)			
	0.20	0.40	0.60	0.80
150mm	0.15 W/m ² K	0.18 W/m ² K	0.20 W/m ² K	0.21 W/m ² K
175mm	0.13 W/m ² K	0.16 W/m ² K	0.18 W/m ² K	0.19 W/m ² K
200mm	0.12 W/m ² K	0.15 W/m ² K	0.16 W/m ² K	0.17 W/m ² K
225mm	0.11 W/m ² K	0.14 W/m ² K	0.15 W/m ² K	0.15 W/m ² K
250mm	0.11 W/m ² K	0.13 W/m ² K	0.14 W/m ² K	0.14 W/m ² K
275mm	0.10 W/m ² K	0.12 W/m ² K	0.13 W/m ² K	0.13 W/m ² K

For project specific U-value calculations contact our Technical Department on (028) 9085 1441



Products from RTU that complement Ultrabead®

ultraflo.
hemihydrate liquid screed

The perfect partner for underfloor heating

Ultraflo® is a unique hemihydrate liquid floor screed, tried and tested by thousands of satisfied customers throughout Northern Ireland, Ireland and the Isle of Man.

ultracem.
cement liquid screed with *IntegraCure*

New generation cement liquid screed

Ultracem® is a cement based, pump applied liquid floor screed incorporating *IntegraCure*, a revolutionary development that removes the need for a curing agent to be sprayed as the screed is installed.

zircon.
POLISHED CONCRETE

The durable alternative to natural stone

Zircon® is a stylish, hardwearing and low maintenance product that delivers a seamless finish and offers a chic and durable polished concrete alternative to natural stone.

STEP
01



Ultrabead brought to site

STEP
02



Pump into required location

STEP
03



Laying of Ultrabead

STEP
04



Allow time for the application to cure

STEP
05



Installation of 50mm top coat with
or without underfloor heating

STEP
06



Allow top coat to cure

Contact our team:

Tel: 028 9085 1441

sales@rtu.co.uk

www.rtu.co.uk



Approved By:



ACCEPTS
REVIEWED
SYSTEM

NHBC Accepts approval confirms that Ultrabead[®] meets NHBC Standards and is technically sound. NHBC Accepts certification is a key part of a valuer's due diligence and provides confidence in the quality and longevity of the new homes being built.

Accredited By:



KIWA is a third-party international certification that involves a fully independent assessment. KIWA Accreditation confirms that the specified requirements pertaining to the quality, safety and sustainability of Ultrabead[®] have been met.

RTU LTD

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