

Information

Ultracrete QC10 is a rapid strength concrete designed for thick section concrete repairs, backfill of carriageway ironwork, haunching reinstatements, post and barrier erection to 250mm depth.

Technical

Ultracrete QC10 is a two-part pack containing special cements and graded aggregate. It only requires the addition of water to form a high strength concrete. **Ultracrete QC10** can be used from 20mm to 200mm in one pass and is an ideal system, conforming to HA104/02, for backfill of carriageway ironwork.

Preparation

Good concrete practice should always be observed, to enable the mix to be placed into position within 10 minutes. Remove all loose particles and work on a sound substrate, pre-wet area with water.

Mixing

By hand or machine. Mix the inner bag containing the cement to the sand/aggregate. Add between 1-2 litres of water and mix thoroughly. A stiff consistent mix should be achieved. It is essential that this product is not over watered, add a small amount of water and mix gradually until a stiff concrete consistency is achieved.

The addition of excessive water will result in slower strength gain, reduced final compressive strength gain and the possibility of shrinkage cracking.

***NB:** Sand/aggregate contain moisture. Take care not to over water.

Placing

Apply material over pre-wetted area and as soon as possible after mixing. Firm well into position by tamping or using a float. Clean any mixing machine with water immediately after mixing.

Precautions

- Wash all tools frequently.
- Mix only enough material to apply in 4 minutes.
- Never remix or add water.
- Wear protective clothing.
- Avoid skin and eye contact.
- Wet cement can burn the skin!
- Cool temperatures retard.
- Warm temperatures accelerate.



Features & Benefits

This market leading rapid strength concrete is designed for thick section concrete repairs and is an ideal system for backfill of carriageway ironwork.

- Part of BBA/Hapas approved ironwork reinstatement system
- Can accommodate depths from 20-250mm
- Rapid strength gain
- Shrinkage compensated
- No independent curing agent required
- Versatile
- Manufactured under a Quality Assurance Scheme BS EN ISO 9001: 2000

Recommended Applications

Backfill concrete used when installing manhole frames.
Post & barrier erection.

Related Products – BBA/Hapas Approved

Ultracrete M45 /M60/M90 - Rapid strength mortars.
Ultracrete IRR - BBA/Hapas Cold lay macadam (Type 2, 3 & 4 Roads)
Ultracrete SCJ - Spray applied Cold joint sealer.
Ultracrete Instaband – Skid resistant overbanding Tape

Health & Safety

This product contains cement which, when mixed with water is alkaline and may cause skin irritation. Operatives should wear protective clothing and work in well-ventilated conditions.

If product enters the eyes, wash thoroughly with clean water. If discomfort continues seek medical advice. In common with all powder products, the material should be mixed carefully, avoiding the raising of dust.

Typical Lab Results - NAMAS Accredited

Age	Temperature	(N/mm ²)
1 hours	20°C	12
2 hours	20°C	20
24 hours	20°C	30
7 days	20°C	40
28 days	20°C	50
Workability: 5 – 10 minutes*		
Setting Time: 15 minutes*		

*Depending on temperature –all tests carried out @ 20°C

Packaging	25kg bag or poly tub delivered on plastic covered pallets
Storage	Store in a dry place at temperatures between 5° -35°C. Shelf life in correct conditions for sealed bags is 6 months. High temperatures and high humidity will lead to a reduced shelf life.
Density	2.340kg M ³
Yield	12 litres (approx)
Colour	Grey

Please refer to page---- for material Health & Safety Datasheets

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