



ULTRACRETE QC10

Rapid Strength Concrete

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 preferred method 7, 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.

PRECAUTION

- ◆ 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.



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

- ◆ Shrinkage compensated
- ◆ No independent curing agent required
- ◆ Versatile
- ◆ Manufactured under a Quality Assurance Scheme BS EN ISO 9002: 1994

RECOMMENDED APPLICATIONS

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

Setting new standards in cement, resin and bitumen based products.

TECHNICAL ADVISORY SERVICE

Instarmac Group plc provides on site consultancy and technical assistance. We are delighted to work closely with Specialist Contractors.

ANCILLARY PRODUCTS

◆ Ultracrete M45

Department of Transport Approved Rapid Strength mortar

◆ Ultracrete IRR

BBA/HAPAS Approved Cold lay macadam

◆ Ultracrete SCJ

Spray applied Cold joint sealer for sealing vertical edges

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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

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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

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



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