

Rapid Set Surfacing Concrete

Information

Ultracrete QC6 is the market leading non-shrink concrete designed for ironwork reinstatements and access covers on roads and pathways and can be laid to depths of 12-100mm depending on application.

Technical

Ultracrete QC6 is a single component pack supplied in 25kg bags and tubs, containing special cements and a 6mm graded aggregate. It only requires the addition of water to form a high strength rapid setting concrete, which when set, dries to match most existing concrete surfaces.

Preparation

Good concrete practice should always be observed, to enable the mix to be placed into position within 4 minutes. Remove all loose debris, oil, grease and work on a sound substrate, pre-wet area with water.

Priming

Large Section Repairs only

Large Section Repairs only ensure substrate is permanently damp. Remove all ponded water and prime using **Ultracrete SP**, scrubbed well into the substrate. Apply **Ultracrete QC6** material immediately after mixing, ensuring that primer is still wet.

Mixing

Ultracrete QC6 should be mixed by forced action mixer or by vigorous hand mixing with an appropriate tool. A 25kg bag/tub will require approximately 2.75 litres of water. A stiff consistent mix should be achieved, ensuring all particles are well wetted.

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 mixing equipment with water immediately after use. Minimum depth 12mm, maximum depth 100mm.

Curing

Small Patches:

Curing not required.

Large Section Repairs:

Spray curing agent, **Ultracrete AR**, immediately after surface finish has been achieved. Due to rapid hardening features of **Ultracrete QC6**, generous amount of curing agent must be applied.

Precautions

- Wear protective clothing/avoid skin and eye contact.
- Wet cement can burn the skin!
- Mix only enough material to apply in 4 minutes.
- Never remix or add water/wash tools frequently.



Features & Benefits

Ultracrete QC6 is a rapid setting, versatile concrete ideal for applications where a quick setting time is essential to alleviate risk of damage to the newly reinstated area.

- Non cracking.
- Excellent workability.
- Prevents growth of vegetation.
- Versatile.
- Reduces 'trip' claims.
- Achieves depths of 12mm – 100mm (depending on application).
- Manufactured under a Quality Management System BS EN ISO 9001:2000.

Recommended Applications

Reinstatements in concrete drives, pavements, paths and areas surrounding street furniture.

Typically used in town centres, seaside resorts and tourist areas.

Related Products

Ultracrete AR
Ultracrete SP

Acrylic Primer & Curing Membrane.
Slurry primer

Health & Safety

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

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 Result – Ultracrete QC6

Age	Compressive Strength (N/mm ²)	Tensile Strength (N/mm ²)	Bond Strength (N/mm ²)	Flexural Strength (N/mm ²)
2 hours	15.42	–	–	–
4 hours	18.45	–	–	–
24 hours	22.79	1.88	1.17	4.96
7 days	50.53	3.11	1.89	5.23
28 days	66.62	3.18	1.70	7.71
Workability	5 – 10 minutes*			
Set Time	15 minutes*			

*Depending on temperatures – test carried out at 20°C. Cool temperatures retard, warm temperatures accelerate.

Unit/Packaging	25kg bag or poly tub delivered on shrink wrapped 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	2.250kg/m ³
Yield	12.5 litres (approximately)
Colour	Grey

For updated Material Safety Data information visit www.instarmac.co.uk

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