



QC6

Rapid Set Surfacing Concrete

Applications

Ultracrete QC6 a non-shrink concrete designed for the surface reinstatement of 'picture frames' or fillets around street ironwork and general repairs to roads and pathways, concrete drives, pavements and surface areas surrounding street furniture. Ideal for reinstatements in town centres and housing estates, where the use of barriers and traffic cones can be eliminated and defects caused by damage or vandalism can be avoided.

Technical

Ultracrete QC6 is supplied pre-blended in 25kg bags and tubs, containing special cements and a 6mm graded aggregate. The product requires only the addition of water to form a high strength rapid setting concrete, which when set, dries to match most existing concrete surfaces. It can be applied from depths of 10mm to 100mm, depending on application. **Ultracrete QC6** should not be used at temperatures below 5°C during application or initial set.

Preparation

Good concrete practice should always be observed to enable the mix to be placed into position within 4 minutes. It is essential that all edges should be saw cut to a minimum depth of 10mm, feather edging is not recommended. All surfaces should be free from oil, grease, dust or any other visible contaminants. Remove all loose particles and work on a sound substrate. Pre-soak the area with clean water prior to application to promote bond and prevent shrinkage, remove ponded water before applying the product.

Priming

Large Section Repairs only: Ensure the substrate is permanently damp. Remove all ponded water and prime with Ultracrete Pro-Prime, which should be scrubbed well into the substrate. Apply **Ultracrete QC6** immediately after mixing ensuring that the primer is still wet.

Mixing

Ultracrete QC6 can be mixed with a forced action mixer or by hand with an appropriate tool. If hand mixing is used, ensure that it is vigorous. 25kg of product will require approximately 2.75 litres of water. A stiff consistent mix with no slump should be achieved, ensuring all particles are well wetted. Mix only enough material to apply within 4 minutes, never remix or add extra water.

Placing

Apply mixed material over a pre-soaked prepared area to a minimum of 10mm and a maximum of 100mm, within 4 minutes. Firm well into position using a float, paying attention to edges and thin sections. Level up to the surface and finish using a steel float or trowel to close up the surface and seal the edges.

Curing

Small Patches: Curing is not required.

Large Section Repairs: Spray the curing agent, Ultra Floor Prime IT AR, immediately after a surface finish has been achieved. Due to the rapid hardening features of **Ultracrete QC6** a generous amount of curing agent must be applied.

Health & Safety

Operatives should wear protective clothing and work in well-ventilated conditions. This product contains Portland cement which, when mixed with water, is alkaline and may in some cases cause skin irritation. If product enters the eyes, wash thoroughly with water and seek medical advice. In common with all powder products, the material should be mixed carefully, avoiding the raising of dust. For a full updated Material Safety Data Sheet please visit www.instarmac.co.uk



Features & Benefits

- Minimises the use of traffic management and second visits
- Excellent workability
- Prevents growth of vegetation
- Versatile
- Reduces 'trip' claims
- Achieves depths of 12mm-100mm (depending on application)
- Eliminates defects



Related Products

- Ultracrete Envirobond HA104®** High Performance Bedding Mortar
- Ultracrete PY4** Polyester Resin Fast Setting Bedding Mortar
- Ultracrete M60** Rapid Strength Bedding Mortar
- Ultracrete QC10** Fast Set Rapid Strength Concrete
- Ultracrete SCJ** Spray Applied Bitumen Cold Joint Sealer
- Ultracrete IRR** Cold Lay Macadam
- Ultra Floor Prime IT AR** Acrylic Primer/Curing Agent
- Ultracrete Pro-Prime** Slurry Primer



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Physical Properties

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

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

Product Details

Unit/Packaging	25kg paper bag or plastic container delivered on shrink-wrapped pallets
Storage	Store in closed original container at temperatures between 5°C and 30°C. Avoid frost. This product must be stored in unopened bags or tubs, clear of the ground in cool dry conditions and protected from excessive drafts. If stored correctly and used within 6 months of the date. Shown on the bag or tub, the activity of the reducing agent will be maintained and this product will contain, when mixed with water, no more than 0.0002% (2 ppm) soluble Chromium (VI) of the total dry weight of the cement
Shelf Life	From date of manufacture in correct conditions for sealed packaging is 6 months. Note: The use of this product after the end of the declared storage period may increase the risk of an allergic reaction. High temperatures and high humidity will lead to a reduced shelf life
Density	2250kg/m ³
Coverage	Approximately, 1m ² @ 12.5mm
Yield	12.5 litres (approximately)
Colour	Grey

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