

Rapid Set Grout

Information

Ultracrete Flowpoint is a rapid set grout with a high fluid consistency for early trafficking that conforms to the strict demands of the BS7533 specification for the rigid construction of streetscape works. With the simple addition of water on site, Flowpoint is transformed into a flowable grout that can be applied by two methods: a pouring vessel with spout for small sections; or for large sections, slurried over the area and worked into the joints with a squeegee. Excess material should be removed by lightly spraying with water using a hose once the product has begun to set (after approximately 15 minutes at 20°C). **Ultracrete Flowpoint** is ideal for all pavements where a rigid or bound void free joint is required.

Technical

Ultracrete Flowpoint is pre-blended and only requires the addition of water on site. **Ultracrete Flowpoint** can fill joint widths from 5mm – 50mm and joint depths of up to 200mm in one pour. This highly flowable grout achieves a final compressive strength of 49N/mm² after 28 days and will reach initial set in 15 minutes at 20°C. **Ultracrete Flowpoint** will accept light foot traffic after 1 hour and vehicular traffic after 4 hours dependent upon temperature. Flowpoint's exceptional bond characteristics of >1.5N/mm² exceed the requirements of BS7533.

Preparation

Joints must be free of any loose debris, clean and pre-soaked using clean water. Remove all ponded water prior to application. Joints need to remain wet until the jointing grout is poured.

Provision of Joints

Consideration must be given to movement joints within rigid or bound construction. Always consult the Project Engineer / Architect for details regarding movement joints.

Mixing

Mixing should be carried out using a drill and grout paddle, or a suitable forced action mixer. Place 4.5 litres of clean water into the mixing vessel and slowly add the entire contents of the 25kg bag of material. Mix for between 3 and 5 minutes. The consistency should be smooth and lump free. In situations where falls need accommodating, the water addition can be reduced slightly.

Placing

Ultracrete Flowpoint is a rapid setting material. In order to ensure efficient placement, preparatory organisation of tools and materials must be carried out. Ultracrete Flowpoint is very fluid; ensure all escape routes are well sealed.

Ultracrete Flowpoint is typically applied utilising one of two methods:



Features & Benefits

Ultracrete Flowpoint is a rapid setting grout specially formulated to BS7533 for rigid construction where a fluid consistency and early trafficking are essential. **Ultracrete Flowpoint** is fully pre-blended only requiring the addition of water on site.

- Open to foot traffic in 1 hour
- Open to vehicular traffic in 4 hours.
- Rapid setting.
- Exceptional bond strength.
- Shrinkage compensated.
- Mixes quickly on site with water.
- Initial set after 15 minutes at 20°C
- Economical to use.
- Conforms to BS7533.
- Ideal for large-scale projects.
- Manufactured under a Quality Management System BS EN ISO 9001: 2000, BS EN ISO 14001: 2004.

Recommended Applications

For rapid jointing of all paving elements where a rigid or bound construction is required.

Related Products - BS7533

- Ultracrete Pro-Bed HS** Fine bedding concrete.
- Ultracrete Pro-Prime** Slurry Primer (promotes bond or adhesion between layers)
- Ultracrete Cempoint** Gun applied pointing mortar.
- Ultracrete Joint Fix** Sand stabiliser and surface protector.
- Ultracrete EP-R9** Epoxy resin bedding & concrete repair mortar.

Large Areas Application

Mix **Ultracrete Flowpoint** as directed, by a drill and grout paddle, or a suitable forced action mixer. Pour mixed material directly onto surface and work into joints with a squeegee.

Small Areas Application

Mix **Ultracrete Flowpoint** as directed and transfer into suitable watering can or similar. Place spout close to joint opening and pour continuously. The material will flow along the joints reducing the need to follow the joint lines. It is important to adopt a continuous application of product for best results. Small spillages can easily be washed off the surface once the material has firmed in the joint.

For both processes once the joints are filled, move off the area and allow **Ultracrete Flowpoint** to slightly firm up. This will be visible by the matting of the finish and will take approximately 10 – 25 minutes depending on temperature. Spray clean water under low pressure to wash away surface residue, taking care with pressure of water to prevent removal of material from joints.

Precautions

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

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. As with all powder products, the material should be mixed carefully to avoid the raising of dust.

Typical Lab Results – Ultracrete Flowpoint (NAMAS Accredited)

Age	Temperature	Compressive Strength	Flexural Strength	Tensile Strength	Bond Strength
2 hours	20°C	10N/mm ²	–	–	–
4 hours	20°C	12N/mm ²	–	–	–
24 hours	20°C	14N/mm ²	4N/mm ²	1.69N/mm ²	–
3 days	20°C	15N/mm ²	–	–	–
7 days	20°C	25N/mm ²	4.5N/mm ²	2.65N/mm ²	–
28 days	20°C	49.6N/mm ²	7.10N/mm ²	3.91N/mm ²	>1.5N/mm ²
Shrinkage	0.06	Modulus of elasticity		19200N/mm ²	
Workability	5 – 15 minutes*	Setting Time		30 minutes*	

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

Packaging	Ultracrete Flowpoint is supplied in 25kg polythene lined bags. Deliveries from our factory are on shrink wrapped pallets
Storage	Store in a dry place at temperatures between 5°C – 25°C. Shelf life in correct conditions for sealed bags is 6 months. High temperatures and high humidity will lead to a reduced shelf life
Yield	13.9 litres (approximately)
Colour	Light Grey or Charcoal

For technical details on Material Safety Data and handling of this product – refer to page 99.
For updated Material Safety Data information visit www.instarmac.co.uk

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