



# Flowpoint

## Rapid Set Grout

### Applications

Ultrascape Flowpoint is a rapid set grout with high fluid consistency for early trafficking that conforms to strict demands of BS7533 parts 7 & 12. Ultrascape Flowpoint is ideal for all pavements where a rigid or bound void-free joint is required. The product is suitable for application in town centre pedestrian schemes, pathways and carriageways, and can be used with natural stone, concrete flags and clay pavements.

### Technical

Ultrascape Flowpoint is pre-blended and supplied in 25kg bags. With the simple addition of water on site, Ultrascape Flowpoint is transformed into a flowable grout, which can be applied using 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 can be removed by lightly spraying with water using a hose once the product has begun to set (after approximately 15 minutes at 20°C). Ultrascape Flowpoint can fill joint widths from 5mm – 50mm and joint depths of up to 200mm in one pour. The material achieves a final compressive strength of 49N/mm<sup>2</sup> after 28 days and will reach initial set in 15 minutes at 20°C. Ultrascape Flowpoint will accept light foot traffic after 1 hour and vehicular traffic after 4 hours dependent upon temperature. Ultrascape Flowpoint's exceptional bond characteristics of >1.5N/mm<sup>2</sup> exceed the requirements of BS7533 parts 7 & 12.

### Preparation

Joints must be free of any loose debris, clean and pre-soaked using water. Remove all ponded water prior to application. Joints need to remain wet until the jointing grout is poured. 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 up to 4.25 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 resulting consistency should be smooth and lump free. In situations where falls need accommodating, the water addition can be reduced slightly.

### Placing

Ultrascape Flowpoint is a rapid setting material. In order to ensure efficient placement, the tools and materials required need to be prepared well in advance. Ultrascape Flowpoint is very fluid; ensure all escape routes are well sealed prior to commencing application.

Ultrascape Flowpoint is typically applied using one of two methods:

#### Large Areas Application

Mix Ultrascape Flowpoint as above. Pour mixed material directly onto surface and work into joints with a squeegee.

#### Small Areas Application

Mix Ultrascape Flowpoint as above and transfer into suitable vessel. Place spout close to joint opening and pour continuously. The material will flow along the joints reducing the need to follow the joint lines. For best results, adopt a continuous product application. Small spillages can be washed off the surface easily once the material has firmed in the joint.

For both methods, once the joints are filled, move off the area and allow Ultrascape 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 to prevent removal of material from joints.



### Features & Benefits

- 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
- Part of the Ultrascape Streetscape System, which guarantees compatibility and reduces split liability.



### Related Products

- **Ultrascape Pro-Bed HS** Fine Bedding Concrete
- **Ultrascape Pro-Prime** Slurry Primer
- **Ultrascape Cempoint** Gun Injected Pointing Mortar
- **Ultrascape Joint Fix** Joint Waterproofing and Surface Sealing Liquid Resin
- **Ultrascape EP-R9** Epoxy Resin Bedding & Concrete Repair Mortar



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### 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 to avoid the raising of dust. For a full updated Material Safety Data Sheet please visit [www.instarmac.co.uk](http://www.instarmac.co.uk)

### Physical Properties

Test Age	Compressive Strength*	Flexural Strength*	Tensile Strength*	Bond Strength
2 hours	10 N/mm <sup>2</sup>	-	-	-
4 hours	12 N/mm <sup>2</sup>	-	-	-
24 hours	14 N/mm <sup>2</sup>	4 N/mm <sup>2</sup>	1.69 N/mm <sup>2</sup>	-
3 days	15 N/mm <sup>2</sup>	-	-	-
7 days	25 N/mm <sup>2</sup>	4.5 N/mm <sup>2</sup>	2.65 N/mm <sup>2</sup>	-
28 days	49.6 N/mm <sup>2</sup>	7.1 N/mm <sup>2</sup>	3.91 N/mm <sup>2</sup>	>1.5 N/mm <sup>2</sup>
Shrinkage	0.06			
Workability	5-15 minutes *			
Modulus of elasticity	19200 N/mm <sup>2</sup>			
Setting time	30 minutes *			

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

### Product Details

Unit/Packaging	25kg paper bags 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, 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, 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
Coverage	72 bags = m <sup>3</sup> Please visit <a href="http://www.ultrascape.co.uk">www.ultrascape.co.uk</a> for a free online product calculator
Yield	13.9 litres (approximately) per 25kg bag
Shelf Life	Shelf life from date of manufacture in correct for sealed bags is 6 months. Please note: the use of this product after the end of the declared storage period may increase the risk of an allergic reaction
Colour	Natural Grey & Charcoal

### Contact Us

**Instarmac® Group plc**, Birch Coppice Business Park, Danny Morson Way, Dordon, Tamworth, Staffordshire, B78 1SE, United Kingdom

Tel: +44 (0) 1827 872244 Fax: +44 (0) 1827 874466

Email: [email@instarmac.co.uk](mailto:email@instarmac.co.uk) Order: [orders@instarmac.co.uk](mailto:orders@instarmac.co.uk) Website: [www.instarmac.co.uk](http://www.instarmac.co.uk)

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