



# New Guard Coatings Group

A global reputation to protect.

The information herewith is given with the best of New Guard Coatings Group knowledge.

Rights are reserved to change and update the data without notice.

This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

[www.newguardcoatings.com](http://www.newguardcoatings.com)

NORTH • SOUTH EAST • MIDLANDS • NORTH WEST • HULL • SCOTLAND

# PY5

## Flowable Polyester Resin Mortar

**ULTRA  
CRETE**

Resin Mortars



Ideal for the anchoring of bolts or bars, the bedding of lights in carriageways, backfill of manhole covers and sealing surface cracks.

- Withstands extreme wear and tear
- Rapid strength gain
- Conforms to HA104/09
- Compressive strength of 85N/mm<sup>2</sup> in 1 hour
- Open to traffic: 40 minutes

### Applications

UltraCrete PY5 produces a flowable material suitable for anchoring bolts or bars, bedding cats' eyes, airport runway lights, backfilling manholes, bridge bearings, balustrades, traffic loops and sensors. The product is also perfect for grouting street furniture and traffic signs.

### Technical

PY5 is supplied as a complete pack, which contains 2 equal parts of resin and activator/filler. Always use 1 tin of resin to 1 pack of filler/activator. When ordering, please state WG or SG (Winter Grade/Summer Grade).

### Preparation

#### Use of PY5 for anchoring dowels and bars

Holes should be either drilled using percussion drill or scabbled to provide roughened faces. Pre-formed holes should be scabbled to provide a key. Holes must be free from water, dust and any debris that might affect bond. Dowels or bars should be either deformed or threaded; smooth bars are not recommended.

#### Use of PY5 as a flowable mortar

PY5 is the ideal accompaniment of PY4 when bedding ironwork. Its flowable texture when mixed can be poured around the frame ensuring all voids are filled. With its high early compressive, flexural and tensile strengths, this material creates a long lasting repair in the most arduous situations.

### Mixing

PY5 should be mixed by forced action mixer or by vigorous hand mixing with an appropriate tool. Add one tin of resin to the pack of filler/activator (or 2 tins of resin to the 2 filler/activators). Pour resin from the tin into the outer bucket and slowly add the filler until a homogeneous mix is attained. Do not part mix material. Use immediately after mixing.

### Placing

Apply the PY5 material immediately after mixing. Do not try to re-mix once initial hardening is evident. Do not lay in standing water.

### Storage

**PY5 Powder:** Store in closed original container at temperatures between 5°C and 25°C. Avoid frost.

**PY5 Resin:** Flammable/combustible – Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry, cool and well ventilated place. Keep in original container. Avoid contact with oxidising agents.

### Shelf life

8 months in above conditions.

### Health, Safety and Environmental

Please ensure that appropriate PPE is used when preparing, mixing and applying products. Always wash your hands before consuming food and make sure that materials are kept safely out of reach of children and animals. Please dispose of packaging and waste responsibly and in accordance with local authority requirements. A full material datasheet relating to this product is available from [instarmac.co.uk](http://instarmac.co.uk).

### Quality assurance

All products are manufactured in a plant whose quality management system is certified / registered as being in conformity with BS EN ISO 9001. Our products are guaranteed against defective materials and manufacture, and will be replaced or money refunded if the goods do not comply with our promotional literature. We cannot however accept any liability arising from the application or use of our products because we have no direct or continuous control over where and how our products are used. All products are sold subject to our conditions of sale, copies of which may be obtained on request.

### Technical data

Compressive strength (N/mm <sup>2</sup> )	
1 hour	84.31
2 hours	91.81
7 days	97.75
28 days	99.25
Flexural strength (N/mm <sup>2</sup> )	
1 hour	21.00
Tensile strength (N/mm <sup>2</sup> )	
1 hour	7.28
2 hours	8.56
7 days	12.47
Workability*	5-10 minutes
Set time*	15 minutes
Coverage	Approx 78 buckets per cubic metre
Yield	13 litres approx
Colour	dark grey <i>As with all raw materials, colour variation may occur. This does not affect the consistency or characteristics of the product.</i>
Unit/packaging	25kg bucket (30 units per pallet)

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

### Contact Us

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

Tel: +44 (0) 1827 254400 Fax: +44 (0) 1827 285386

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

Vers6.1.19 Uncontrolled if printed. For the most up-to-date version of this datasheet, please refer to this product's profile on our website which can be found at [www.ultracrete.co.uk](http://www.ultracrete.co.uk)