



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

Ultracrete PY5 Data Sheet

Specification notes

Product: **Ultracrete PY5**

Supplier:

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Flowable Rapid Setting Polyester Resin Mortar

Information

A flowable polyester resin mortar with a proven track record. **Ultracrete PY5** produces a flowable material suitable for bedding-in cats eyes, airport runway lights, backfilling manholes, bridge bearings, balustrades, traffic loops and sensors. Also perfect for grouting – street furniture and traffic signs.

Technical

Ultracrete PY5 is supplied as a complete pack and to avoid unnecessary waste, each pack is divided into 2 equal parts. (2 x resin, 2 x 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 dry, 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:

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

Mixing

Ultracrete 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 to 2). Pour resin from the tin into the outer bucket and slowly add the filler until an homogeneous mix is attained. Do not part mix material. Use immediately after mixing.

Placing

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

Precautions

- Avoid skin and eye contact.
- Avoid inhalation of dust and vapour.
- Wear protective clothing.
- Mix only enough material to apply in 4 minutes
- Clean tools frequently.
- Dispose of any unused material and empty containers in a safe approved manner.



Features & Benefits

Ultracrete PY5 is a high strength flowable polyester resin mortar ideal for the bedding of lights in carriage-ways, back fill of manholes, street furniture and a variety of grouting, filling and bonding applications.

- Flowable resin mortar. Can be applied at 0°C.
- Open to traffic in 40 minutes.
- Rapid strength gain – 84N/mm² after 1 hour.
- Excellent flexural and tensile strength – 21 N/mm² flexural after 1 hour.
- Rapid setting – 15 minutes (dependant upon temp).
- Suitable for all ironwork conforming to BS EN 124.
- Complies with Department of Transport Design Manual for Roads and Bridges: 'Mortars for Bedding Ironwork.' Volume 7 section 2.
- Manufactured under a Quality Management System BS EN ISO 9001:2000.

Recommended Applications

Flowable polyester resin mortar for sealing surface cracks, anchoring dowel bars, street furniture, traffic and street signs and as part of the Ultracrete System for installing and reinstating ironwork.

Related Products

Ultracrete M60	Rapid strength Bedding Mortar.
Ultracrete QC10	Rapid strength backfill concrete.
Ultracrete IRR	Permanent cold lay macadam (Type 2, 3 & 4 Roads).
Ultracrete SCJ	Bitumen cold joint sealer.
Ultracrete PY4	Polyester resin mortar.
also	
Ultracrete Instaline	Thermoplastic marking repair.
Ultracrete Instaband	Skid resistant Overbanding tape.

Health & Safety

Resin components have a flash point of 32°C. Keep the containers closed when not in use. Avoid inhalation of fumes and work in well-ventilated areas. The use of barrier creams, protective clothing, including gloves, goggles and facemask are recommended.

Ultracrete PY5 can be removed from the skin by washing with plenty of water. If swallowed do not induce vomiting, seek immediate medical attention. Keep out of the reach of children.

Typical Lab Result – Ultracrete PY5

Age	Curing Temperature	Compressive Strength (N/mm ²)	Flexural Strength (N/mm ²)	Tensile Strength (N/mm ²)
1 hour	20°C	84.31	21.0	7.28
2 hours	20°C	91.81	20.7	8.56
7 days	20°C	97.75	–	12.47
28 days	20°C	99.25	–	–
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 Poly tubs delivered on shrink wrapped pallets
Storage	Store in a dry place at temperatures between 5° – 30°C. Shelf life in correct conditions for sealed tubs is 6 months. High temperatures and high humidity will lead to a reduced shelf life.
Yield	13.0 litres (approximately)
Colour	Dark Brown

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

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