

ULTRA CRETE

EP-R9

Epoxy Bedding & Concrete Repair Mortar

Applications

Ultracrete EP-R9 is a two-part high strength epoxy resin mortar and primer system, especially suitable for bedding granite setts, paving elements up to recess covers, tree grids and coping stones as well as concrete repair for areas subject to heavy wear-and-tear. The product contains a blend of specialist sands and fine fillers that provide exceptional strength, bond and chemical resistance, which makes it ideal for pavement edge details, vehicle ramps and pedestrian crossings. Ultracrete EP-R9 accommodates depths from 5mm-50mm.

Preparation

As with all concrete repairs, it is vitally important to remove all grease, dirt, dust and other loose materials prior to application. Smooth substrates must be mechanically roughened, (for example by scabbling or needle gun), washed with clean water and allowed to dry. Note: Ultracrete EP-R9 should be applied only in dry conditions in order to guarantee product performance and durability of application.

Priming

The supplied primer should be applied to substrates before the application of Ultracrete EP-R9. Mix all the content of primer A and B thoroughly in a separate vessel (not provided). Ensure moisture is not introduced at any stage to the components. Brush the mixed contents well into the prepared substrate taking care to avoid 'puddling' in depressions. Ultracrete EP-R9 should be applied when primer has started to gel, but still has surface 'tack'. Note: The primer should be applied to all areas within 3-4 minutes. Unused material will generate heat; therefore care must be taken when handling the material.

Mixing

Mix thoroughly the buff coloured Ultracrete EP-R9 Base (pack C) and dark grey coloured Ultracrete EP-R9 Hardener (pack D) to produce a cohesive dark blue/grey coloured trowellable mortar. This is best achieved by using a forced action paddle type mixer. Alternatively, vigorous hand mixing with a steel float will provide the desired consistency (please ensure the appropriate PPE is worn at all times). Lightly spray the solvent provided in the pack onto mixing tools in order to prevent material sticking.

Placing

The mixed material should be applied firmly into the primed surface to ensure positive adhesion. The primer should not be left to dry before this takes place. Pay particular attention to edges and thin sections. The surface may be closed using a steel trowel.

Cleaning

Use the solvent supplied for cleaning the tools and equipment after use.

Health & Safety

Keep containers closed when not in use. The solvent is flammable and must be kept away from ignition sources. Avoid inhalation of fumes and contact with skin and eyes. Ensure work is carried out in well-ventilated areas with appropriate local extraction. The use of protective clothing, including gloves, goggles and respiratory equipment should be worn if not well ventilated. The product can be removed from the skin by washing with plenty of water. If swallowed do not induce vomiting and seek immediate medical attention. In case of contact with eyes rinse immediately with water and seek medical advice. For a full updated Material Safety Data Sheet please visit www.instarmac.co.uk



Features & Benefits

- Versatile applications
- High strength and rapid set
- Depths from 5mm-50mm
- Chemically resistant
- Waterproof
- Quick application
- Pack includes primer, gloves and brushes



Related Products

- **Ultrascape Pro-Prime** Slurry Primer
- **Ultrascape Pro-Bed HS** Fine Bedding Concrete
- **Ultrascape Flowpoint** Rapid Set Grout
- **Ultrascape Cempoint** Gun Injected Mortar
- **Ultrascape Joint Fix** Liquid Sealer/Sand Stabiliser
- **Ultracrete FTC** Fast Set High Strength Repair Concrete

continued



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Physical Properties

Test Age	Compressive Strength* (N/mm ²) (BS6319: Part 2: 1983)	Tensile Strength* (N/mm ²) (BS6319: Part 7: 1985)	Flexural Strength* (N/mm ²) (BS6319: Part 3: 1983)	Density of Hardened Material (Kg/m ³) (BS6319: Part 5: 1984)	Compressive Modules (KN/mm ²) (BS6319: Part 6: 1984)	Flexural Modules (GN/m ²) (BS6319: Part 9: 1990)
24 hours	38.0	14.3	–	2050	–	–
7 days	75.0	15.6	22.4	2070	11.2	10.8

Bond Strength N/mm ² :	45
Set time:	30 minutes*
Workability:	30 minutes *
Initial Hardness:	1 Hour *
Full Cure:	7 Days *
Minimum Application Temp:	5°C

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

Chemical Resistivity		
Water	–	Excellent
Hydrochloric Acid	25%	Excellent
Nitric Acid	8%	Good
Acetic Acid	5%	Good
Tartaric Acid	10%	Excellent
Citric Acid	10%	Excellent
Lactic Acid	10%	Very Good
Phosphoric Acid	10%	Very Good
Sodium Hydroxide	50%	Excellent
Sugar Solution	–	Very Good
Ethanol	–	Very Good
Diesel Fuel/Petrol	–	Very Good

Product Details

Unit/Packaging	10kg and 22kg plastic containers
Pack Contents	10kg Ultracrete EP-R9 container: 2 x 3kg Base packs (C) 2 x 2kg Hardener packs (D) 1 x 140ml Primer resin (A) 1 x 70ml Primer hardener (B) 1 x 20mm Brush 1 x Pair Poly Gloves 1 x Solvent Spray Bottle 22kg Contractor pack Ultracrete EP-R9: 2 x 6kg Base packs (C) 2 x 4kg Hardener packs (D) 1 x 476ml Primer resin (A) 1 x 253ml Primer hardener (B)
Storage	All components: Store in tightly closed original container at temperatures between 5°C and 30°C. Avoid frost and keep solvent away from sources of ignition
Shelf Life	Shelf life from date of manufacture in correct for sealed containers is 6 months
Yield	22kg Tub = 9.5 litres 10kg Tub = 4.76 litres
Colour	Grey

Contact Us

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