

RESI-BED

Epoxy Bedding, Bonding and Repair Mortar

ULTRA
CRETE



Ideal for bonding coping stones, arris repairs, bedding granite setts and paving elements in recess covers and tree grids.

- Rapid installation
- Chemical resistant
- Waterproof
- Excellent bond: 45N/mm²

Applications

RESI-BED 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. RESI-BED 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: RESI-BED 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 RESI-BED. 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. RESI-BED 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 RESI-BED Base (pack C) and dark grey coloured RESI-BED 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.

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.

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

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, 14001, and OHSAS 18001. 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 ²)	
24 hours	38.00
7 days	75.00
Tensile strength (N/mm ²)	
24 hours	14.30
7 days	15.60
Flexural strength (N/mm ²)	
7 days	22.40
Density of hardened material (Kg/m ³)	
24 hours	2050
7 days	2070
Compressive modulus (KN/mm ²)	
7 days	11.20
Flexural modulus (GN/m ²)	
7 days	10.80
Bond strength (N/mm ²)	
	45.00
Workability*	
	30 minutes
Set time*	
	90 minutes
Initial hardness*	
	1 hour
Full cure*	
	7 days
Coverage	
	Approx 1 x 400mm x 400mm standard ironwork cover and frame @ 25mm, dependant on bed depth, brickwork and substrate
Yield	
	22kg bucket: 9.75 litres 10 kg bucket: 4.76 litres
Colour	
	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	
	10kg bucket (60 units per pallet) 22kg bucket (39 units per pallet)

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

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

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