ENVIROBED® CD534 RED











The environmentally friendly alternative to resin-based materials, specifically formulated for the bedding of all access covers.

- HAPAS Approved
- Conforms to CD534 (formerly HA104)
- Can be used in the wet
- BT LN550 and LN320 compliant
- Detectably red

- 53N/mm² compressive strength at 3 hours
- 6.10N/mm² tensile strength at 3 hours

Applications

Envirobed® CD534 Red, (part of UltraCrete's HAPAS Approved Ironwork Reinstatement System), is pigmented red as a prescriptive solution for specific contracts and frame works to easily identify the composition of work carried out. It is supplied as a two-component system, which contains a blend of special cements, polymer and aggregates and recycled glass. The combined components provide a high strength mortar, which can accommodate depths of 10-50mm in one pass. If necessary, greater depths am be achieved by using the layer-upon-layer method.

Preparation

All surfaces should be free from oil, grease, dust or any other visible contaminants. Remove all loose particles and work on a sound substrate. Pre-soak the area with clean water prior to application to aid bond. Remove ponded water before applying the product.

Mixing

Envirobed $^{\circ}$ CD534 can be mixed by a forced action mixer or by drill and paddle.

Mechanical Mixing: Pour contents of liquid bottle into a wide based mixing vessel such as a Gorilla tub, leaving a small amount in bottle. Add half the bag of UltraCrete Envirobed powder and mix with a slow speed forced action mixer (300-400rpm) until the powdwer is absorbed. Add a further quarter of the powder and mix followed by the remaining powder. A total mixing time of 2 minutes should be observed. Check the consistency and add the remainder of the liquid if needed. This allows a change in consistency without effecting performance.

Drill and paddle: We recommend a grout mixing paddle with a slow speed drill and paddle (around 300-400rpm), using a wide based mixing vessel such as a Gorilla tub.

Placing

L. Full bed

Apply the bedding material over a pre-soaked area. Once mixed, Envirobed® CD534 should be applied to the supporting structure within 4 minutes. Firm well into position using a float and allowing a 5mm excess thickness. Place the frame onto the bedding mortar ensuring it is fully supported. Check that the frame does not overhang the mortar at any point (use suitable lifting equipment when positioning the frame). Care must be taken to prevent voids in the bedding material under the frame. The frame should then be tamped into place using a string line, to ensure the correct level is obtained with the surrounding road surface. Any holes within the frame should be in-filled and the flanges of the frame enveloped by a minimum thickness of 10mm with the bedding material. Exposed surfaces of the bedding material should be float finished, ensuring voids are filled. Remove loose material has reached its initial set, the backfill material UltraCrete QC10 F or Envirobed® Flowable can be placed.

2. Damming mortar (for use with Envirobed® CD534 Flowable Red)

Place the mortar in the gap on the inside of the frame and chamber top using a trowel or heel of a gloved hand, taking care to leave no voids to produce a 'dam' and pointed smooth finish. Allow to stiffen.



Cleaning

Clean any mixing equipment and tools immediately after use.

Storage

Powder bag: Store in closed original bags at temperatures between 5°C and 30°C. Avoid frost and sunlight. 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 8 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.

Liquid additive: Extreme temperatures can damage this product in its liquid form. Store containers at temperatures between 5°C and 30°C. Liquid should not be exposed to excess heat, cold or frost during storage or when being transported between sites.

Shelf life

8 months in above conditions. Please note: The use of this product after the end of the declared storage period may increase the risk of an allergic reaction. High temperatures and high humidity will lead to a reduced shelf life

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. 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/mm²)	
1 hour	30.00
3 hours	53.00
24 hours	64.00
7 days	73.00
28 days	78.00
Tensile strength (N/mm²)	
1 hour	3.30
3 hours	6.10
Flexural strength (N/mm²)	
3 hours	12.0
Bond strength (N/mm²)	3.50
Workability*	15 minutes
Set time*	30 minutes
Density	2298kg/m³
Coverage	Approx 1 x 400mm x 400mm standard ironwork cover and frame @ 20mm, dependant on bed depth, brickwork and substrate
Yield	Plastic container: 8 litres for the entire unit
Colour	light grey As with all raw materials, colour variation may occur. This does not affect the consistency or characteristics of the product.
Unit/packaging	18kg bucket inc. 2 x 8kg bags and 2 x 1 litre bottles (40 units per pallet)

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

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Complies with Highways Agency Document CD534 (formerly HA104/09)

Chamber Tops & Gully Tops for Road Drainage and Services. Which States:

The material should be non-shrink.

The materials should have a minimum workable life of 15 minutes.

The compressive strength should exceed 30N/mm² in 3 hours.

The tensile strength should exceed 5N/mm² in 3 hours.

Contact Us

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