



REPAIR ABSOLUTE

A highly reinforced epoxy resin mortar for interior application and repairs

The three pack easy to use epoxy resin mortar, has excellent mechanical properties, ideal for rapid repair of concrete surfaces in heavy duty environments.

What is Repair Absolute?

Repair Absolute is a blend of epoxy resin and mortar aggregates perfect for concrete repairs needed in heavy duty environments. The hard wearing, durable, low odour and impact resistance formulation ensures your repair is easy to carry out.

Key Features and Benefits of Repair Absolute

- Hard wearing and durable
- Ease of application, simply mix and apply
- Minimum surface preparation
- Can be used as a repair system
- Excellent abrasion and impact resistance
- Low odour
- Can be used to form coving and falls
- Can be feather edged

Where can I use Repair Absolute

Repair Absolute can be used in any concrete based system, whether that be warehousing areas, chemical production and storage, printing and packaging areas, engineering facilities, automotive industry, aerospace production areas, industrial workshops and many more. The excellent impact resistance of Repair Absolute means it can withstand heavy vehicular traffic. Should the repair be on a vertical surface, ensure a wet primer is used alongside Repair Absolute to increase surface adhesion.

Technical Information

Coverage: 5 Kg will cover 0.5m² @ 5mm

System thickness: Typically 3-20 mm

Cure times;

- Seal coats: 12 -16 hours
- Light traffic: 12 - 16 hours
- Full traffic: 24 -36 hours
- Full chemical cure: 7-10 days

Pot life: 25-30 minutes from mixing, based on 5 Kg pack size

Note: All mixed product must be used within the pot life time limit, if the product is left in the container after mixing and not used, it may release hazardous fumes due to exothermic reaction.

Mixing ratio: pre weighed tins are measure 2.1 parts Base to 1 part Hardener 10 19.8 parts aggregate by weight only

Shelf life: 36 months

Storage: Keep out of direct sunlight, store in dry place, between 15°- 20°C

Recommended application methods: trowel or float

Temperature resistance: - 0° - 60°C @ 3mm

Bond strength (BS EN 13892-3:2022): > 3 N/mm² (substrate failure)

Impact resistance (BS EN 1504-2:2004): Class II

Abrasion resistance (BS EN 13892-4:2004): AR 0.5 (less than 50 microns wear)

Maximum repair depth: 25 mm

Minimum repair depth: 2-3 mm

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Instructions for use

Surface preparations

New concrete floors: New concrete must be clean, sound, dry, fully cured and surface laitance removed by vacuum enclosed shot blasting or mechanical grinding, a minimum strength of 25N/mm² is required.

Existing concrete floors: Remove all dirt, oil, grease, old paint or any other surface contaminants by vacuum enclosed shot blasting, scarifying or mechanical grinding. Fats, oils or greases must be removed by mechanical means and detergent washing and making sure all residue of detergent is washed and removed by rinsing with clean water. Local repairs should be carried out using Repair Absolute.

Existing concrete floors (previously coated): All previous coatings and loose floor paints must be removed by mechanical preparation as described in the above section and primed as specified. If the old resin flooring cannot be removed then please consult with our technical team for advice on intercoat adhesion and suitability, as it may not be compatible with the existing floor coating. Where Repair Absolute is applied to masonry/concrete surfaces, care must be taken to ensure that surface preparation is thorough but does not disfigure the surface.

Priming: open and porous substrates should be primer with one or two coats of primer.

Mixing and application

Mix the Repair Absolute Base with the Repair Absolute Hardener. If a separate mixing bucket is being used mix thoroughly ensuring all contents of both components are removed from the buckets supplied. Add the aggregate component slowly whilst mixing. Mix using an electric mixer for approximately two to three minutes until the three components have fully combined. For larger units a forced action mixer may be required to fully combine the aggregate into the resins.

Dependant on the repair required, the amount of aggregates added can be altered in order to achieve the required consistency. For example a consistency of cement will require less aggregates, in order to provide low viscosity. Should the repair require a more malleable consistency, more aggregates can be added to achieve a mortar consistency.

Repair Absolute should be worked with a trowel or float to achieve a dense, compacted finish. This is best achieved by the application of smooth even pressure in one direction, gradually increasing the pressure as the material compacts and beds down. Over-working the material will draw fines to the surface which may result in resin-rich spots and finish variations.

The ambient temperatures of the areas should not be allowed to fall below 15°C throughout the application and the curing period, as this could have an adverse effect on the appearance and colour of the system. Surface temperature must be above 10°C. Where possible it is recommended that the application area is heated to a minimum temperature of 15°C ideally to allow the ambient and substrate temperature to stabilise prior to the installation.

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