

REPAIR ABSOLUTE

A Powerful Epoxy Mortar Formula, Top of the Line Concrete Repairs



What is Repair Absolute?

Repair Absolute is a three pack, epoxy resin-based repair mortar designed for application from 3 to 25 mm thickness. Its formula is hard wearing, durable and has great impact resistance, making it perfect for concrete repairs needed in heavy duty environments, while also being easy to apply.

Repair Absolute is a three-part kit, comprising of a base component, a hardener, and a bag of aggregate. All components come pre-weighed and ready to be mixed.

Benefits and Features:

- Hard wearing, durable
- Low odour
- Quick cure
- Great adhesion to concrete
- Non-shrinking
- Good general chemical resistance
- Abrasion and impact resistant
- Interior and exterior use
- Easy application, simply mix and apply

Curing Schedule @ 20°C:

Pot Life	25 mins
Light Traffic	12 hours
Full Traffic	24 hours
Full Cure	7 days

PLEASE NOTE: At lower temperatures the above cure times will be increased

Technical Data after 28 days @ 20°C:

Compressive Strength	>50 N/mm ²
Shore D Hardness	N/A
Bond Strength	>3 N/mm ² (Concrete Failure)
Abrasion Resistance	AR 0.5 (less than 50 microns wear)
Slip Resistance Pendulum Test to BS7976-2	Dry > 60
Impact Resistance	Class II
VOC	<40g/L Based on a fully mixed unit
Chemical Resistance	Excellent chemical resistance

Typical Areas of Application:

- Concrete repairs, anywhere
- Warehouses
- Car parks and garages
- Industrial settings
- Chemical production plants
- Engineering, automotive and aerospace locations

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Issue Date: 07.03.24

Revision Date: 07.03.24

Revision: 2.0



Surface Preparation:

To be assured of maximum adhesion and best properties the correct surface preparation is essential. The concrete substrate must be a minimum of 28 days old, and the residual moisture content must be a maximum of 75% RH. The substrate should be sound with a minimum compressive strength of 25 N/mm² and a minimum pull-off strength of 1.5 N/mm².

The surface must be clean, dry and free of contaminants such as dirt, oil, grease, coatings, and surface treatments and contain a functioning damp proof membrane. If in doubt, apply a test area first.

If surface contains any coatings or surface treatments, concrete substrates should be mechanically prepared using vacuum enclosed abrasive blast cleaning or diamond grinding equipment, followed by thorough vacuuming leaving an open textured surface. Weak concrete must be removed and repaired. Ask your sales rep about suitable products for concrete repair and cleaning.

Priming:

If applying this product to porous surfaces, priming the area of application before using this product is recommended. If this is to be used in an area like this, please ask your sales rep for a recommended primer.

Mixing:

Repair Absolute comprises of three components, pre-weighed and ready for mixing. Add all the contents of the Part A (Base) and Part B (Hardener) components into a new container (metal tins provided will not contain complete mixture). Using an electric mixer, mix the two components for at least 2-3 minutes, making sure to scrape down the sides and bottom and incorporating the whole contents. Once a consistent colour and texture is achieved, slowly add the aggregate component while mixing for a further 2-3 minutes. To ensure the specifications mentioned in this tech sheet are achieved, we'd recommend all of the aggregate component is used.

Application:

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.

Materials and substrate temperature must be above 10°C.

Advice for Application:

- For regularly wet environments, areas where chemical contamination is possible and for ease of cleaning, Repair Absolute can be sealed with Epox-Eze.
- Protect the installed floor from damp, condensation and water for at least 24 hours.
- Repair Absolute, like most epoxy-based materials, is not UV stable. Yellowing may occur under UV exposure. This does not affect its performance or function.

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Coverage Rate:

Approximately 0.5m² per 5kg kit at 5mm thickness, on a sealed surface. Coverage is dependent on surface profile, texture, porosity and substrate temperature.

Storage:

Store in dry conditions at temperatures between 10°C and 25°C. Do not expose to freezing conditions. Repair Absolute has a maximum of 36 months shelf life when stored in the original, unopened containers.

Cleaning Equipment:

All equipment used should be cleaned immediately after with xylene.

Health & Safety:

Always read and understand the label, and Safety Data Sheet provided, before using this product. Always wear recommended PPE when using this product. The SDS and this Technical Data Sheet is also available on our website, www.img-limited.co.uk.

