

# PermaCOAT Epoxy Repair Mortar



## Description

PermaCOAT Epoxy Repair Mortar is a three component, solvent free and high strength mortar, ideal for a wide range of concrete repair work. The mortar is supplied in a grey concrete colour to match the existing surface.

Suitable for most broken out concrete areas, PermaCOAT Epoxy Repair Mortar is the perfect solution for flooring patching and repairs, in preparation for PermaCOAT Epoxy Coatings. The product is extremely durable and has a well graded filler component that allows easy placement and compaction, with negligible shrinkage.

PermaCOAT Epoxy Repair Mortar can be applied to a thickness ranging from 5mm to 50mm in horizontal applications. For deeper applications, the mortar should be built up in successive layers. The product can also be applied vertically, at lower thicknesses.

Typical applications include:

- Surface filling and sub-base for epoxy coatings
- Pot hole repair
- Ramp and step repair
- Broken out vertical sections
- Infill beneath steel beams or concrete beams in underpinning works

## Benefits

- Exceptional physical properties and mechanical strength
- High bond strength to concrete substrates
- Non-shrink repairing and bedding mortar
- Water impermeable
- Can be applied to horizontal and vertical surfaces

## Preparation

Substrates to be treated should be dry and free from oil, grease, dust, dirt and biological growth (moss or algae). Any contaminated substrates should be cleaned in conjunction with BS8221-1:2012, "Code of practice for cleaning and surface repair of buildings. Cleaning of natural stones, brick, terracotta and concrete". It is important when cleaning the substrate not to use detergents as these can interfere with the initial bond.

Concrete surfaces must be suitably prepared by wire brush, scabbling or grit blasting to remove friable and loose material.

## Priming

To assist with adhesion, surfaces should be primed with PermaCOAT Primer prior to application of PermaCOAT Epoxy Repair Mortar. Thoroughly wet the surface with primer, ensuring there is a continuous film of resin over the surface. Particular attention should be paid to cracks. Apply PermaCOAT Epoxy Repair Mortar directly after the application of the primer.

## Mixing

PermaCOAT Epoxy Repair Mortar comprises of three components, a resin base, hardener and filler which are pre-weighed to the correct proportions. Do not part mix batches. Ensure that the bottom and sides are thoroughly scraped; transfer the entire contents of the hardener container into the resin container. Using a mixer attached to a slow speed electric drill, mix for approximately 2 minutes until a uniform consistency is achieved.

The resin mixture should then be transferred to a separate container and the filler gradually added and mixed for a further 2 minutes or until the filler has thoroughly wetted out and a uniform consistency is achieved.

## Application

PermaCOAT Epoxy Repair Mortar should be applied by tamping, followed by trowelling to achieve the desired finish. It must be applied before the primer starts to set. The mortar shouldn't exceed 50mm for horizontal applications and up to 12 mm vertically, each layer being well compacted before subsequent material is applied. If the mortar has been allowed to harden, the surface should be abraded and a further coat of PermaCOAT Primer to be applied.

To achieve the desired trowelled finish, the trowel can be wiped with a suitable solvent. If formwork or shuttering is to be used, a suitable release agent should be applied to the formwork to prevent the PermaCOAT Epoxy Repair Mortar adhering to it.

## Technical Information

<b>Pack size</b>	10kg
<b>Colour</b>	Grey
<b>Coverage</b>	10kg = 1.1m <sup>2</sup> @ 5mm thickness 10kg = 0.11m <sup>2</sup> @ 50mm thickness
<b>Pot life</b>	60 mins
<b>Compressive strength BS 6319-2</b>	≥ 55 N/mm <sup>2</sup> @ 7 days
<b>Flexural strength BS 6319-3</b>	≥ 20 N/mm <sup>2</sup> @ 7 days
<b>Overcoat time</b>	24-36hrs
<b>Light traffic</b>	24-48hrs
<b>Heavy traffic</b>	72hrs
<b>Full chemical cure</b>	7 days
<b>Storage</b>	Keep out of direct sunlight. Store above 10°C
<b>Shelf life</b>	12 months

## Maintenance and Cleaning

PermaCOAT Epoxy Repair Mortar should be cleaned with a regular industrial cleaning regimen with a floor scrubber, if left exposed. All surfaces should be thoroughly rinsed with clean water after the use of chemical cleaners.

## Health & Safety

PermaCOAT Epoxy Repair Mortar is formulated from materials designed to achieve the highest level of performance as safely as possible.

However, specific components require proper handling and suitable equipment, this information is given in the relevant safety data sheets. In all cases, spillages or skin contamination should be cleaned as soon as practically possible, by dry wiping of the affected area, and thorough washing with soap and water. For further information please see the latest safety data sheet.

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