

Concrete Surface Repair Set 25kg



Technical Data Sheet and Installation Instructions

The kit includes

1. Primer 1 (Priming)
2. Primer 2 (Priming for very absorbent surfaces)
3. Resin additive (Hardener) 3 kg
4. Concrete Surface Repair Set Powder 25 kg
5. Mixing Bucket



Product Description

The dmd Concrete Surface Repair Set is designed as an industrial grade flooring overlay for rough, damaged or tamped concrete. It sets to a smooth, non-dusting surface that is tough enough to withstand forklift trucks. It is not recommended as a levelling compound for existing very smooth or power floated surfaces. The product can be left as a highly practical industrial finish or over painted. The 25 kg container approx. Covers 4m² at a thickness of 3mm. After drawing-off with a spatula, the product is self-smoothing and can be coated after drying for 24-36 hours.

Color: grey

Application Areas:

- Indoor and Outdoor Areas
- For repair of concrete floors with surface defects
- For heavy traffic (e.g. forklift)
- For smoothing rough surfaces
- For heavy traffic (e.g. forklift)
- As a dust-free finish or as a smooth surface for subsequent coating

Curing time: 6-8 hours (to be walked on)

24-36 hours (fully cured)

Installation temperature: +5° up to +30° (do not use in wet conditions or in direct sunlight)

Properties:

- Self-levelling, easy to coat
- Permanent bond to substrate material starting at a thickness of 3 mm up to 15mm
- Polymer modified, therefore twice as firm as usual concrete
- Very high load capacity
- Dust-free

Concrete Surface Repair Set 25kg

Please note:

DO NOT apply if frost is forecast within 24 hours, in wet conditions, in temperatures below 5°C or above 30°C, to elevations in direct sunlight or to substrates that are hot. Never add water or fresh product and / or powder to a Concrete Surface Repair mix which has already started to set.

Shelf Life - When properly stored, the shelf life for closed containers is 12 months

Preparation

The substrate should be reasonably clean and free of loose dust and surface material, using a sweeping brush to remove any loose material. Remove heavy oil and grease contamination using a degreasing agent. It does not matter if the concrete is damp. Any flaking paint must be removed from painted surfaces.

Priming

Two primers are supplied. Dampen areas of bare concrete with clean cold water and leave for 20-30 minutes. Apply Primer 1 to the prepared surface using a brush or soft broom and allow it to soak into the concrete for at least 15-20 minutes until primer is tacky. Apply only as much primer as is required to provide a thin, reasonably even film without ponding. We supply Primer 2 to allow for very absorbent surfaces, and application to less absorbent surfaces will require less than we supply. If excess Primer is used it can bleed through the wet Concrete Surface Repair and dry on the surface although any dried primer will wear off as the floor is put into use, it can lead to problems if the surface is going to be painted.

Mixing (immediately after Primer has become tacky)

Each bag of dmd Concrete Surface Repair Set should be mixed with the resin additive provided in the pack. Pour the resin additive into the bucket provided, and then gently add the powder to the bucket while mixing continuously with a suitable drill with whisk attachment. Stir continually for approximately 2 minutes; allow standing for 2 minutes then re-mixing. This process allows the polymer additives to dissolve and activate. Use the mixed compound immediately. If the mix stiffens before it has been spread, it must be discarded. Do not add extra water or liquid.

Application

Pour the mixed components on to the tacky Primer. Using a trowel spread the mixed components across the surface of the concrete at the desired thickness. It may be convenient to work to a thin batten for depth and edge control but this must be removed before further sections are treated. It is not essential that trowel marks are removed at this stage. Immediately after application a spiked roller should be used to improve the finish and release any trapped air. Work the spiked roller uniformly across the surface rolling each area 3 or 4 times from different directions. The spiked roller should not be used more than 20 minutes after the product has been applied (less in warm or very dry conditions) as it will then start to cure and the roller marks will not disappear. Care should be taken not to tread wet primer or the mixed components onto surrounding surfaces. External applications in direct sunlight can lead to hairline crazing. In exceptional temperature conditions advice should be obtained from our Technical Department.

Setting Time

Foot and light traffic may be allowed after approximately 6 hours. Dmd Concrete Surface Repair Set will be ready for full use after 24-36 hours when laid at normal depths (i.e. 3-5mm) these guidelines assume an ambient temperature of approximately 15°C-20°C and good ventilation. Lower temperatures will retard curing. Do not apply at less than 5°C or above 30°C. Temperatures over 25°C can make the material sticky to apply and lead to rapid drying out causing surface crazing, especially in direct sunlight.

Over Painting

The dmd Concrete Surface Repair Set does not need to be over painted and can be left as a practical, non-dusting surface. In common with cementitious products, the shade of colour may vary due to the nature of cement and site conditions. Where appearance is important an epoxy resin coatings may be used to coat the surface. Solvent free

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products may be used after 24-36 hours, solvent based products after 7 days. Avoid paints which contain strong solvents.

Cleaning

All equipment must be washed with clean water immediately after use. Waste material should not be emptied into drainage systems.

Health and Safety Instructions

- Irritating to skin.
- Risk of serious damage to eyes.
- Keep out of reach of children.
- Avoid contact with skin and eyes.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.
- Wear suitable gloves and eye/face protection.
- If swallowed, seek medical advice immediately and show this container or label.

Disposal information

See safety data sheet

Quality Control

All products are factory blended, tested and packaged to quality control procedure in accordance with BS EN ISO 9001 series.

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Product Comparison Floor Repair Systems

Repairs of	Asphalt Floors	Concrete Surfaces	Concrete Patches	Concrete Floors
Application	Fast repair of potholes in asphalt/tarmac surfaces	Repair of damaged concrete surfaces in heavy duty areas and for smoothing of rough surfaces	Fast repair of flat and deep holes in concrete floors with heavy traffic	Repair of concrete and stone floors in heavy duty areas, of defective steps and of damaged gaps
Recommended product	Asphalt Repair Set	Concrete Surface Repair Set	Patch Repair Set	Concrete Repair Set
Indoor and outdoor areas	yes	yes	yes	yes
No. of components	1	3	1	2
Components	Ready mixed bitumen	Cement powder, hardener and primer	Ready mixed cement powder	Epoxy concrete repair mortar and hardener
Consistency	tough	liquid	liquid	tough
Colour	black	grey	grey	grey
Processing time	15 min	30 min	5-10 min	30 min
Depth repair	100 mm each layer	3 mm up to max. 15 mm	5 mm up to max. 100 mm	50 mm each layer
To be walked on	immediately	6 h	2 h	6-8 h
Curing time	60% after 24 h	24-36 h	2 h	6-8 h
Installation temperature	in wet, frost and heat	+5 up to +30°C	+5 up to +30°C	+10 up to +30°C
Service temperature	-20 up to +60°C	-20 up to +60°C	-20 up to +60°C	-20 up to +60°C
Coverage	1 m ² at 15 mm thickness	4 m ² at 3 mm thickness	2,5 m ² at 5 mm thickness	1,2 m ² at 5 mm thickness (10 kg unit)
Container consumption	divisible	not divisible	divisible	not divisible