

Deep Cavity Repair Kit

Description

- **Nicobond Deep Cavity Repair Kit** is a 2-part repair system designed for filling deep holes and voids in concrete surfaces and sand: cement screeds from 10mm to 200mm in one application.
- It remains workable so it can be easily brought level with existing surrounding floors.
- Mortar like consistency
- Interior and exterior
- Suitable for use in various settings, including industrial floors, warehouses, loading bays, and in other areas which may require damage repairing.
- Quick setting to reduce downtime when repairing areas and can accept heavy traffic in 2 hours.
- Once first application is cured further layers can be built up at 200mm thick at a time.
- Easy to use, with straightforward mixing and application processes.
- Can be applied to damp (not wet) substrates.



Key Features

- Available in 25kg & 12.5kg kits
- Mixing bucket included
- Contains both powder and liquid components – no measuring required
- Fibre Reinforced
- Polymer modified
- Priming not always necessary
- Foot traffic in 30-60 minutes at 20°C
- Can accept heavy traffic such as Forklift Trucks after 2 hours at 20°C
- Paintable surface: can be painted with a suitable flooring product after approx. 24 hours
- Easy Application: It can be mixed and applied easily, often with minimal surface preparation.

Application Data

Colour	Light Grey
Mixing Ratio	25kg (22.2kg Powder/ 3.3kg Liquid) 12.5kg (10.9kg/1.6kg Liquid)
Mixing	Shake the liquid component thoroughly prior to pouring into the supplied mixing bucket. Add the powder at a steady rate to the liquid, while stirring continuously using a variable speed mechanical mixer. The material should be mixed until a smooth lump free consistency is achieved.
Consistency of mix	Slurry like mortar
Bed thickness	10-200mm in one application
Coverage	25kg kit approx. 1.0m ² at 12.5mm thick. 12.5kg kit approx. 0.5m ² at 12.5mm thick. See coverage chart.
Pot Life	Due to its rapid setting characteristics, only prepare product that can be used within 5-10 minutes at 20°C.
Ready For Light foot Traffic	30-60 minutes
Ready For Forklift Traffic	2 hours
Setting time	24 hours
Installation Temperature	Minimum 5°C
Operating Temperature	-20°C to 70°C
Packaging	25kg & 12.5kg kit comprises of plastic outer mixing bucket containing powder in poly lined paper sack and liquid in plastic Jerrycan

EN 13813:2002 Test Methods

EN 13892-2	Determination of flexural and compressive strength after 28 days
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Deep Cavity Repair Kit

Nicobond Deep Cavity Repair Kit is intended to be used to repair deep damage and holes in an existing concrete base, sand: cement screed or similar. It can be considered a supplementary product to Nicobond Pourable Patch Repair Kit; however, it is pre aggregated with coarse mortar like consistency allows it to be used to repair areas on inclines or cambers, shuttering gaps between steelwork and concrete floors, and repair damage to step edges where Nicobond Pourable Patch Repair would be too fluid.

For particularly rough and uneven floors Nicobond ScreedPro Heavy Duty C40 F7 smoothing compound can be used to level the whole floor between 5-50mm once the required areas have been repaired with Nicobond Deep Cavity Repair and allowed to dry. It can then be over painted with a suitable sealer once cured and be considered as a wearing surface.

Always consult the latest Technical Data sheet for the product to be used. All installations must be carried out to the relevant BS EN standard such as BS 5385 & BS 8203 where appropriate to meet the recommended performance characteristics.

BS EN 13813 Classification CT-C45-F6

Substrates

Nicobond Deep Cavity Repair Kit is intended to be used to repair existing bases however the following advice must be considered.

Concrete & Sand/Cement Screeds

Concrete and sand/cement screeds must be dry, and any laitance or surface treatments removed. Sand/Cement screeds must have a moisture reading of less than 75% RH before work can begin. Allow approximately 1 day per mm for drying of new screeds. It is also advised to prime sand/cement screeds to maintain a good flow and prevent air bubbles rising to the surface. Porous surfaces may need more than one coat. Prime with Nicobond Primer diluted at 4 parts water to 1-part Nicobond Primer.

Power Floated Concrete The surface should have been allowed to dry for at least six weeks. Power Floated Concrete can have a loose top layer and in some cases laitance once it has dried. Mechanically remove any laitance or surface treatments.



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All dust and debris must be removed using a vacuum cleaner.

Surface Preparation

Surfaces to be repaired should be rigid, dimensionally stable, sound, clean and free from laitance, paints, salts, grease, dust and any contamination which may impair adhesion. To avoid the need to feather edge the material, edges of the repair should be cut and made square to the same depth as the rest of the repair in heavily trafficked areas. It may be necessary to wire brush the surface. Vacuum clean or thoroughly sweep the area before application. Prime with the area to be repaired with Nicobond Primer diluted at 4 parts water to 1-part Nicobond Primer to consolidate the floor and allow to dry. Application can be completed without priming but this may affect the longevity of the repair depending on the absorbency of the base.

Mixing

Shake the liquid component jerrycan thoroughly prior to pouring all the contents into the supplied mixing bucket. Then add the powder at a steady rate to the liquid, while stirring continuously using a variable speed mechanical mixer. The material should be mixed until a smooth lump free mortar is achieved. Because of its rapid setting qualities, mix the material near to the area in which it is to be used. Trowel the material into the prepared area – If necessary, use a suitable trowel to square off the surface. It may require compacting to ensure the area is fully filled. Wash tools off in clean water immediately.

Work in layers of 200mm maximum. If greater depth is required leave a minimum of 12 hours between each layer and build up the repair in multiples of maximum 200mm depth as required.

If not all 12.5kg/25kg of the product is required in one go, the following table can be used as a guide for smaller amounts. Only mix the product at the below ratios or the performance and longevity of the repair may be impaired.

Powder (KG)	Liquid (Litres/KG)
5.6	0.83
11.1	1.7
16.7	2.5
22.2	3.3

The information contained on this data sheet is given in good faith. It is to the best of our knowledge true and accurate; however, it may contain information which is inappropriate under certain conditions of use. The company cannot accept responsibility for any loss or damage due to inappropriate use or the possibility of variations of working conditions and of workmanship outside our control.

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Painting

Once cured for at least 24 hours in most conditions Nicobond Deep Cavity Repair Kit will be ready to be painted using a suitable floor paint, epoxy sealer or similar product.

Approximate Coverage per 1m²

Thickness (mm)	Amount of 25KG Kits required	Amount of 12.5KG Kits required
12.5	1	2
25	2	4
50	4	8
75	6	12
100	8	16
150	12	24
200	16	32

Shelf Life

A minimum of 12 months in unopened bags and a minimum of 12 months in unopened bottles from the date of manufacture when stored as advised.

Storage

This product must be clear of the ground stored under dry conditions. Protect from frost.

Cleaning

Wash tools in water immediately after use.

Health & Safety Advice

Powder Component

Nicobond Deep Cavity Repair Kit is classified under the Chemicals (Hazard Information and Packaging for Supply) Regulations. Nicobond Tarmac & Asphalt Repair Kit contains Portland cement, (contains Chromium VI), may cause an allergic reaction. Contact with water causes an alkaline reaction which may cause skin irritation and/or caustic burns to mucous membranes. Wear suitable protective clothing, gloves and eye/face protection. Keep away from children.

Liquid component

EUH208 - Contains 2-methylisothiazol-3(2H)-one(2682-20-4). May produce an allergic reaction.
EUH210 - Safety data sheet available on request.

The relevant Material Safety Data Sheet can be obtained from www.nicobond.com or directly from N&C Building Products Ltd at the address below.

Powder component

UFI:1480-E086-Y00N-W3C7

Liquid component

UFI: X780-W0XM-9004-JEXC

Email: technical@nicobond.com

See Nicobond "Tiling Systems the directory" for full details of our extensive range of tiling and flooring products and tiling solutions. Refer to the latest version of our Technical Data Sheets and Safety Data Sheets to ensure compatibility before use, these can be downloaded from our website www.nicobond.com

Manufacturer's Warranty

Nicobond products are covered by our lifetime warranty. If the materials prove to be defective due to manufacturing, they will be replaced, or money refunded. We do not accept any liability for workmanship or any consequential loss or damage.



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