

Concrex[®] Range

OUR STRONGEST EVER EPOXY RESIN MORTAR

Watco

The UK's leading direct supplier of industrial strength flooring products



THE USES OF CONCREX[®]



Damaged steps



Fitting guide rails



Worn floors



Different levels



Holed floors



Spalled expansion joints

- Virtually indestructible
- May be feather-edged
- Chemical resistant and anti slip
- Impermeable and non-dusting

We have reformulated Watco Concrex to make it even stronger. It now contains epoxy novolac resin which improves resistance to abrasion, chemicals and temperature. It's still as easy to use and as reliable as ever – use it in heavy wear areas where ordinary repair mortars will fail.

Main uses: Repairing eroded or damaged concrete, bay edges and broken steps

Usage: Interior & exterior



Suitable for: Concrete, sand and cement, metal

Coverage: 1.2m² per 10kg at 5mm thick

Depth: From feather-edge to 50mm depth (full strength is achieved at 5mm)

Curing time: 5-6 hours at 20°C

Ready for heavy traffic in 12-16 hours

Primer: Not usually required

Tools: Steel float or trowel

Also available in the Concrex® Range

Concrex® Advanced



Our fastest curing and strongest epoxy mortar ever!

Available in
10kg and 25kg packs

Coverage:
Approx. 1.2m² per 10kg
and 3m² per 25kg

Concrex® Flex



Ideal for repairing areas that are subject to movement and vibration.

Available in
10kg packs

Coverage:
Approx. 1.2m² per 10kg
at 5mm thick

Concrex® Deep Fill



Ideal for filling deep holes quickly and economically.

Available in
25kg packs

Coverage:
Approx. 1m² per 50kg
at 30mm thick

Concrex® Deep Fill Rapid



Quickly fills deep holes in damaged concrete.

Available in
25kg packs

Coverage:
Approx. 1m² per 50kg
at 30mm thick

Concrex® Rapid Set



Extra fast epoxy repair mortar for heavy industrial use. Ready for heavy industrial traffic in 3 hours at 20°C

Available in
10kg and 25kg packs

Coverage:
Approx. 1.2m² per 10kg
at 5mm thick

Concrex® Asphalt Repair



A heavy duty epoxy resin mortar ideal for difficult repairs to asphalt.

Available in
25kg packs

Coverage:
Approx. 1m² per 25kg
at 15mm thick

Concrex® Coloured



Now contains epoxy novolac resin to give an even tougher mortar with higher temperature, chemical and solvent resistance. Available in blue, green, terracotta, tile red, stone, buff, light grey and black.

Available in
10kg and 25kg packs

Coverage
Approx. 1.2m² per 10kg
at 5mm thick

Concrex® Coloured Cold Set



Ideal for eroded cold room floors, repairing entrance ways or external areas

Available in
10kg and 25kg packs

Coverage:
Approx. 1.2m² per 10kg
at 5mm thick

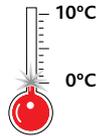
Concrex® Cold Set



Cold curing version for winter use and cold room conditions.

Available in
10kg and 25kg packs

Coverage:
Approx. 1.2m² per 10kg
at 5mm thick



Concrex® Deep Fill Cold Cure



Ideal for filling deep holes in cold areas.
A cold setting version of Concrex® Deep Fill

Available in
25kg packs

Coverage:
Approx. 0.5m² per 25kg
at 30mm thick

Concrex® Sub Zero



Ideal for thin section repairs and feather edge repairs that need to be undertaken in freezing conditions.

Available in
10kg packs

Coverage:
Approx. 1.2m² per 10kg
per 5mm thick

Concrex® Damp Repair Kit



For incredibly tough repairs to areas that cannot be dried out easily.

Available in
10kg packs

Coverage:
Approx. 1.2m² per 10kg
at 5mm thick

Concrex® Vertical



A two-part epoxy resin mortar with special lightweight fillers. The effective way to fix damaged vertical masonry.

Available in
2.5kg and 25kg packs

Coverage:
Approx. 0.6m² per
2.5kg at 5mm thick

Concrex® Vertical Cold Cure



A two-part epoxy resin mortar, ideal for repairing damaged masonry on vertical surfaces in cold rooms or externally, when temperatures are as low as 0°C.

Available in
2.5kg packs

Coverage:
Approx. 0.6m² per
2.5kg at 5mm thick

Concrex® Bonding Mortar



Provides a high strength bond for fixing bund walls or kerbs to asphalt or concrete floors.

Available in
17kg packs

Coverage:
Approx. 1m² per 17kg
at 8mm thick

Concrex® Coving Mortar



Heavy duty epoxy resin mortar for a tough coved skirting

Available in
5kg packs

Coverage:
Approx. 5m of
50mm x 50mm coved
skirting

Watco Concrex® Range

WATCO CONCREX ORIGINAL

The most versatile and widely used epoxy resin repair mortar. Maximum strength is achieved at only 5mm thick and repairs may be feather-edged. May be applied at up to 50mm thick for patch repairs. For larger, deeper repairs, build up in layers of approximately 50mm (allowing 6-8 hours between layers) or use finishing with Watco Concrex Deep Fill. Apply at temperatures above 10°C.

WATCO CONCREX ADVANCED

Our strongest and fastest curing epoxy repair mortar. Cures in only one hour at 20°C.

WATCO CONCREX RAPID SET

An extra rapid setting version enables repairs to be heavily trafficked after only three hours.

WATCO CONCREX DEEP FILL

Designed to fill deep repairs to within 5mm of finished floor level before finishing with Watco Concrex Original. Can be applied at 15-100mm thick in one layer.

WATCO CONCREX DEEP FILL RAPID

Fills deep holes in damaged concrete quickly. Cures in only 1 hour at 20°C.

WATCO CONCREX COLOURED

Pigmented version of Watco Concrex Original. When used as a screed

to resurface larger areas we recommend sealing Watco Concrex Coloured using one coat of Watco Epoxy Gloss Coat in a similar colour to make cleaning easier.

WATCO CONCREX COLD SET

For use at a temperature range of 0°C to 10°C.

WATCO CONCREX VERTICAL

Special lightweight version for vertical and overhead repairs. (2.5kg of this lightweight mix is equivalent in volume to 5kg of Watco Concrex Original.) Can be applied at any depth without the need to build up in layers.

WATCO CONCREX FLEX

A super strong and flexible version of Watco Concrex, specially developed with a new blend of resins to enable movement, and withstand vibration.

WATCO CONCREX SUB ZERO

Developed to be used at temperatures as low as -20°C, and still be feather edged.

WATCO CONCREX BONDING MORTAR

Provides a high strength bond for fixing bund walls or kerbs to concrete or asphalt floors.

WATCO CONCREX VERTICAL COLD CURE

Ideal for repairing vertical repairs as low as 0°C.

Technical Data

COMPOSITION

A resin rich blend of specially selected finely graded aggregate and epoxy resin. A curing agent is added at point of use. Watco Concrex Deep Fill also contains a larger aggregate.

APPEARANCE

Smooth, impervious surface. Watco Concrex Deep Fill has a rougher, textured surface.

MANY USES

Suitable for virtually any industrial application where exceptional wear resistance is required. Ideal for thin section or feather-edge repairs where conventional cement based mortars would fail. Watco Concrex also makes an ideal thin section screeding material.

ADHESION

Watco Concrex adheres strongly and permanently to the substrate.

SHRINKAGE (on cure)

Negligible.

SHELF LIFE

The resin will last indefinitely and the curing agent at least nine months, with the container tightly sealed.

STRENGTH

Concrex is far stronger than concrete. The table shows a comparison (typical figures).

	Watco Concrex	Concrete
	MN/m ²	MN/m ²
Tensile strength	15.4	3.4
Flexural strength	55.9	6.9
Compressive strength	55.2	21-41

CHEMICAL RESISTANCE

Resistant to spillages of many chemicals at 20°C commonly met within industry, including: paraffin, petrol, fuel oils, alcohols, dilute nitric, sulphuric and hydrochloric acids, sugar solutions, oxalic acid, citric acid, caustic soda, salt solutions, cutting oils, mineral oils. Advice given regarding other chemicals.

STORAGE

Products should be stored at a temperature between 10°C and 30°C.

PRIMING

A primer is not usually required if patch or crack repairing. Watco Tack Coat adhesive primer is recommended when applying Watco Concrex as a thin section screed or when applying to smooth, non-porous or metal surfaces. Watco Tack Coat Damp Prime enables repairs to be made to damp areas. Watco Tack Coat is always required with Concrex Vertical and Concrex Vertical Cold Cure.

SURFACE PREPARATION

Surfaces should be clean, dry and free of all loose material. Wire brushing or sweeping is generally sufficient. Watco Bio-D degreaser can be used to remove grease and oil. If the surface is wet, it can be primed with Watco Tack Coat Damp Prime.

MIXING AND APPLICATION

Each Watco Concrex pack contains a granular resinous compound and separate containers of curing agent. (Concrex Sub Zero has 3 components; resin, aggregate and curing agent). The components are mixed with a trowel according to the simple instructions in the pack until a smooth grey mortar is obtained. The more thorough the mixing, the 'wetter', smoother and more manageable the mix becomes. This can be achieved quite quickly by wearing disposable gloves and kneading the mixture by hand. A cretriangle or similar mixer can be used to ensure thorough mixing of larger quantities. This is trowelled firmly against the surface to be repaired, and finished with a trowel or float. To prevent drag on the trowel, a rag moistened with white spirit may be wiped across the face of the tool.

WORKING LIFE

Half to one hour depending on the temperature. If Concrex is used past its working life, trowelling will become difficult and adhesion will be reduced.

CURING TIMES

- **Watco Concrex Original, Flex, Bonding Mortar, Deep Fill and Vertical Grade**
Normally 5-6 hours depending on temperature. Curing time will be extended by low temperatures. Curing will be very slow or even arrested by temperatures at 10°C and below.
- **Watco Concrex Advanced, Deep Fill Rapid**
1-2 hours at 20°C.
- **Watco Concrex Cold Set**
6-8 hours at 10°C, 24-48 hours at 0°C.
- **Watco Concrex Rapid Set**
2-3 hours at 20°C, 4-6 hours at 10°C.
- **Watco Concrex Sub Zero**
3-5 hours at 15°C, 12-16 hours at 0°C, 48 hours at -20°C.

EQUIPMENT CLEANING

Equipment used for mixing and applying Watco Concrex should be cleaned with white spirit or a similar solvent before the Watco Concrex cures.

GENERAL MAINTENANCE

When fully cured proprietary detergents or degreasants may be used to clean the surface.

LIMITATIONS

The products should not be subjected to temperatures above 60°C (140°F). In certain circumstances discolouration may occur on some vinyls when laid over Concrex repairs.

ORDERING

Available direct from Watco UK Ltd and through agents worldwide. All Watco products are sold subject to the Company's Standard Conditions of Sale.

The Company and its representatives are often asked to comment on potential uses of Watco products which differ from those described in the Company's data sheets. Whilst in such cases the Company and its representatives will always try to offer helpful and constructive advice, the Company cannot be held responsible for the results of such uses unless they are specifically confirmed in writing by Watco.



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