

CONCREX® RANGE

Our strongest ever epoxy resin mortar

AREAS OF USE

- Repairing eroded or damaged concrete, bay edges and broken steps
- Fitting guide rails
- Spalled expansion joints



FEATURES

- Virtually indestructible
- May be feather-edged
- Chemical resistant and anti slip
- Impermeable and non-dusting
- Ready for heavy traffic in 12-16 hours

DESCRIPTION

Watco Concrex Original is the most versatile and widely used epoxy resin repair mortar. We have reformulated it to make it even stronger, now containing epoxy novolac resin which improves resistance to abrasion, chemicals and temperature. 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) finishing with Watco Concrex Deep Fill. Apply at temperatures above 10°C.

Watco Concrex Rapid Set is an extra rapid setting version enabling repairs to be heavily trafficked after only three hours.

Watco Concrex Deep Fill is 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. The rapid version cures in only 1 hour at 20°C.

Watco Concrex Coloured is a pigmented version. When used as a screed to resurface larger areas we recommend sealing with one coat of Watco Epoxy Gloss Coat in a similar colour to make cleaning easier.

Watco Concrex Cold Set is for use at a temperature range of 0°C to 10°C, whilst Watco Concrex Sub Zero has been developed to be used at temperatures as low as -20°C, and still be feather edged.

Watco Concrex Vertical is a 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. The Cold Cure version is ideal for use at temperatures as low as 0°C.

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

SPECIFICATION

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.	Pack Sizes	2.5kg: Vertical and Vertical Cold Cure. 5kg: Coving Mortar. 10kg: Original, Rapid Set, Coloured, Coloured Cold Set, Flex, Cold Set, Sub Zero and Damp Repair Kit. 25kg: Original, Advanced, Deep Fill, Deep Fill Rapid, Deep Fill Cold Cure, Rapid Set, Coloured, Coloured Cold Set, Asphalt Repair, Cold Set and Vertical.
Appearance	Smooth, impervious surface. Watco Concrex Deep Fill has a rougher, textured surface.	Coverage	Original, Rapid, Coloured, Coloured Cold Set, Flex, Cold Set, Sub Zero and Damp Repair Kit: 1.2m ² per 10kg at 5mm thick. Deep Fill and Deep Fill Rapid: 1m ² per 50kg at 30mm thick. Asphalt Repair: 1m ² per 25kg at 15mm thick. Vertical and Vertical Cold Cure: 0.6m ² per 2.5kg at 5mm thick. Coving Mortar: Approx. 5m of 50mm x 50mm coved skirting.
Colour	Dark Grey. See colour swatches for Concrex Coloured and Concrex Vertical overleaf.	Adhesion	Watco Concrex adheres strongly and permanently to the substrate.
Primer Required	No. 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.	Shrinkage (on cure)	Negligible.
Usage Interior/ Exterior	Interior & exterior.	Shelf Life	12 months in unopened container.
Application Tools	Steel float or trowel.	Storage	Between 10°C-30°C. Do not allow to freeze.
Suitable For	Concrete, sand & cement and metal.		

SPECIFICATION (cont.)

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.	Cleaning Tools	Equipment used for mixing and applying Watco Concrex should be cleaned with white spirit or a similar solvent before the Watco Concrex cures.
		Principle Limitations Please contact us regarding applications not described here.	The products should not be subjected to temperatures above 60°C. In certain circumstances discolouration may occur on some vinyls when laid over Concrex repairs.

CURING TIMES

Original, Flex, Deep Fill & Vertical Grades	Deep Fill Rapid	Cold Set	Rapid Set	Sub Zero
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.	1-2 hours at 20°C	24-48 hours at 0°C 6-8 hours at 10°C	4-6 hours at 10°C 2-3 hours at 20°C	48 hours at -20°C 12-16 hours at 0°C 3-5 hours at 15°C

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

AVAILABLE IN THE CONCREX® RANGE



Concrex® Flex



Concrex® Cold Set



Concrex® Deep Fill



Concrex® Deep Fill Rapid



Concrex® Sub Zero



Concrex® Rapid Set



Concrex® Asphalt Repair



Concrex® Vertical



Concrex® Coloured



Concrex® Coloured Cold Set



Concrex® Deep Fill Cold Cure



Concrex® Damp Repair Kit



Concrex® Vertical Cold Cure



Concrex® Coving Mortar

COLOURS

Concrex® Coloured

Blue	Green
Tile Red	Stone
Buff	Light Grey
Black	

Concrex® Vertical

Grey	Stone
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Concrex® Vertical Cold Cure

Grey

Samples are available on request. While great care is taken with the colour samples shown, no guarantee can be given that they represent exactly the colours offered.

PREPARATION & APPLICATION

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.

GENERAL MAINTENANCE

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



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