

CONCREX® VERTICAL CONCREX® VERTICAL COLD SET

Epoxy resin repair mortar for vertical and overhead repairs

AREAS OF USE

- Damaged concrete pillars, sills, beams, render and stone work
- Frost spalled and damaged concrete surfaces
- Areas with exposed reinforcement



FEATURES

- Lightweight non-slump formulation
- Ideal for frost damaged and spalled concrete
- Durable, impervious finish
- Excellent adhesion and durability
- Fast curing
- Cold Set version allows year-round maintenance

DESCRIPTION

Watco Concrex® Vertical is a two part epoxy resin mortar with special lightweight fillers and is approximately a third of the density of ordinary mortars. This means it can be used on vertical or overhead repairs without slumping or falling out as the repair sets. It can be pushed into the repair with a trowel, smoothed off to a feather-edge and left to cure hard. This saves having to prepare the shuttering and support which would be required for an ordinary mortar.

Watco Tack Coat adhesive primer must be used before applying Watco Concrex® Vertical/Cold Set. This provides unparalleled adhesion to the substrate. It will not shatter under impact like conventional cementitious mortars. The cured surface is impervious to rain and will not be affected by frost or airborne pollution and is resistant to a wide range of chemicals.

Watco Concrex® Vertical will cure in 3 - 6 hours plus, depending on temperature and will normally be unaffected by rain a few hours after application (at 20°C). Concrex® Vertical Cold Set will cure at temperatures as low as 0°C. Please note that when purchasing Watco Concrex® Vertical/Cold Set, its special lightweight fillers means that a 10kg unit contains approximately twice the volume of material when compared with a 10kg unit of a Watco Concrex® floor repair product.

SPECIFICATION

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| Composition | Epoxy resin mortar with lightweight fillers. | Application Thickness | There is no limit to the depth of the repair. |
| Number of Components | 2 | Curing | 3 - 6 hours plus, at a temperature range of 15°C - 30°C. The higher the temperature the shorter the curing time. Protect from rain as far as possible for the duration of the curing period. Do not subject to temperatures in excess of 60°C. The curing of Concrex® Vertical will be slowed and eventually halted at temperatures of 10°C and below. At these temperatures use Concrex® Vertical Cold Set |
| Finish | Smooth, impervious surface. | | |
| Primer Required | Not usually – see section headed 'Priming'. | Cleaning | When fully cured, detergents or degreasants may be used to clean the surface. Do not steam clean or subject to temperatures in excess of 60°C. |
| Usage Interior/ Exterior | Interior & exterior. | Cleaning Tools | Clean with white spirit or similar solvent before the Concrex® Vertical cures. |
| Working Life | 30 - 60 minutes at a temperature range of 15°C - 30°C. The higher the temperature the shorter the working life. If Concrex® Vertical is used past its working life adhesion to the surface will be greatly reduced. | Shelf Life | 12 months in unopened containers. |
| Application Tools | Steel float or trowel. | Storage | Store for 8 hours prior to use at a temperature of between 15°C - 25°C maximum. Do not allow to freeze. |
| Suitable For | Concrete, render, stone. | Safety | All product labels provide general safety information. Material Safety Data Sheets are available. |
| Pack Size | 10kg (for information regarding volume see the note under 'Description' above) | | |
| Coverage | Approximately 2.4m ² at 5mm thick | | |
| Shrinkage (on cure) | Negligible. | | |
| Damaged by Frost | No. | | |
| Can be Feather-edged | Yes, around the edge of a repair – full strength at 5mm thick. | | |

COLOUR

Mid Grey

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

SPECIFICATION (cont.)

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| Chemical Resistance | Resistant to spillages of the following at 20°C: Salt solutions, Caustic soda and metasilicate based cleaning preparations, Dilute Nitric, Sulphuric and Hydrochloric acid, Citric acid, Fuel oils, Petrol and Paraffin. | Principle Limitations Please contact us regarding applications not described here. | Concrex® Vertical has excellent adhesion, chemical and weather resistance but due to the lightweight fillers used it will not have the same resistance to impact damage as Watco Concrex®. Concrex® Vertical will however not shatter like concrete under impact. Concrex® Vertical may not be impervious at thicknesses less than 5mm. Concrex® Vertical is not suitable for structural or bonding applications and is intended for surface 'facing' and 'filling' only. |
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ALSO AVAILABLE IN THE CONCREX® RANGE



Concrex® Carbon Fibre **Concrex® Flex** **Concrex® Cold Set** **Concrex® Deep Fill** **Concrex® Acid Strength** **Concrex® Sub Zero** **Concrex® Colours** **Concrex® Colours Cold Set**
Concrex® Asphalt Repair **Concrex® Deep Fill Cold Set** **Concrex® Coving Mortar** **Concrex® Fine Filler**

PREPARATION & APPLICATION

SURFACE PREPARATION

Concrete and render – Should be at least four weeks old and free of previous coatings, contaminants and loose or friable material. Dusty, powdering surfaces of concrete should be wire brushed. Any exposed, rusty metal reinforcing should be coated with a suitable rust converter and primer to prevent further corrosion and left to cure thoroughly.

Stone – Surfaces should be free from contamination or algae etc.

PRIMING

Watco Tack Coat adhesive primer must be applied before using Watco Concrex Vertical/Cold Set. Mix the Tack Coat in accordance with the instructions and apply to the substrate using a brush. This stabilises and binds weak material and provides an excellent adhesive base for Watco Concrex® Vertical/Cold Set. Watco Tack Coat will cure at 0°C so can be used with Watco Concrex® Vertical Cold Set. Watco Tack Coat can also be applied to damp surfaces.

MIXING

Each 10kg pack contains a resinous filler material in a plastic bag and 2 bottles of curing agent. If a smaller quantity is required, divide the contents of the bag accurately into two equal parts and mix 1 bottle with each half by trowel on a board. Mixing should be carried out thoroughly. If mixing is correctly done the colour should be uniform, without streaks and of even texture. Always mix for a further 5 minutes after the mix appears to be of uniform colour to ensure thorough dispersion of the curing agent.

APPLICATION

Watco Concrex® Vertical/Cold Set should be applied while Watco Tack Coat is still wet or tacky. Trowel it firmly onto the surface, smoothing it out using a trowel or steel float. Occasionally wipe the trowel with a cloth dampened with white spirit to achieve a smooth result.

For awkward deep repairs the mortar can be pushed into place using a gloved hand and finished with a trowel.

SAFETY

Avoid contact with the skin. Barrier creams or gloves are recommended. Cleansing creams should be used after accidental contact with the skin and/or washing with plenty of soap and hot water. Accidental contact with eyes should be treated by flushing with water for 15 minutes and medical advice sought.

Food products must be removed from the area during application and cure.

Please refer to detailed Health and Safety information sheet issued in compliance with C.O.S.H.H. All products labels provide general safety information.

Material Safety Data Sheets are available.



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