

Concrex[®] Acid Strength

Permanent repairs for acid damaged concrete



Watco Concrex Acid Strength is a high strength epoxy resin mortar with outstanding chemical resistance for heavy duty repairs to masonry and concrete floors. It has been developed to give outstanding chemical resistance, against even 95% sulphuric acid. It offers all the strength, ease of use and durability of Concrex, but is ideal for areas where strong chemicals are used or stored.



Areas of use:

- Where strong chemicals are used or stored

Features:

- Resists 95% sulphuric acid
- Virtually indestructible and non-dusting
- Repairs can be feather edged
- Ready for traffic in six hours
- Easy to apply
- Suitable for heavy vehicle traffic

Need help? Speak to the experts

Our dedicated and professional team are here to help you get the best results for your project. They will talk you through the preparation and application stages when using **Concrex[®] Acid Strength**.

Call our expert team on: **01483 418 418** (Weekdays 8:00am - 5:30pm. Saturday 9:00am - 12:00pm)



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1 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 damp, it can be primed with Watco Tack Coat.

2 Mixing

Each pack of Concrex Acid Strength contains aggregate pre-blended with resin and the curing agent. If the entire pack of Concrex Acid Strength cannot be used within 30-60 minutes, the products can be part mixed.

To split a pack, carefully halve the aggregate/resin mix (ideally divide it by weight) and use half the number of curing agent bottles or tins. Do not split the contents of a curing agent bottle or tin. Do not mix inside the plastic bucket. Wear protective gloves. Tip the aggregate on to a mixing tray or board. Shake the bottles or tins of curing agent thoroughly until the liquid is a uniform colour. Form the aggregate into a mound and leave a small hole in the middle. Empty the curing agent into the hole ensuring the bottles or tins are completely drained.

Carefully mix the aggregate with the curing agent using a trowel until a smooth mortar is obtained, this will take several minutes. The more thorough the mixing, the 'wetter', smoother and more manageable the mix becomes. Alternatively, you can knead the mixture by hand but you must wear suitable gloves. Mix thoroughly until you achieve a consistent colour. Machinery such as a 'Cretangle' mixer or suitable open pan mixer can be used to ensure thorough mixing of large quantities. Once mixed, the product is trowelled firmly against the surface to be repaired and finished with a steel trowel or float.

3 Application

Trowel firmly against the surface to be repaired and finish with a trowel or float. To prevent 'drag' on the trowel, moisten a rag with white spirit and wipe it across the blade which will allow you to create a smooth finish. Concrex Acid Strength is normally applied in thicknesses of 5mm - 50mm but repairs can be feather edged for a neat finish; as long as the majority of the repair is at least 5mm thick. For repairs deeper than 50mm, apply in separate layers (allow 6 - 8 hours between layers for curing) or use Watco Concrex Deep Fill (which can be applied 15mm -100mm thick in one layer). There is no need to reapply Watco Tack Coat if building up in layers.

4 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 the eyes should be treated by flushing with water for 15 minutes and medical advice sought. A detailed Material Safety Data Sheet is available.

5 Ordering

Available direct from Watco UK Limited 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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Specification

Composition	A resin rich blend of specially selected, finely graded aggregate and epoxy resin. A curing agent is added at point of use.
Number of Components	2
Primer Required	A primer is not usually required if patch or crack repairing. Watco Tack Coat adhesive primer is recommended when applying Concrex Acid Strength as a thin section screed or when applying to smooth, non-porous or metal surfaces.
Usage Interior/Exterior	Exterior & interior.
Application Tools	Steel float or trowel.
Suitable For	Concrete, sand & cement and metal.
Pack Size	10kg
Coverage	Approximately 1.2m ² per 10kg at 5mm thick.
Curing Time	Light traffic in 8 hours at 15°C, 6 hours at 20°C and heavy traffic in at least 16 hours at 15°C - 20°C. Full chemical resistance reached in 7 days.
Cleaning Time	When fully cured, proprietary detergents or degreasants may be used to clean the surface.
Pot Life	60 minutes at 15°C. If used past its working life, trowelling will become difficult and adhesion will be reduced.
Cleaning Tools	Equipment used for mixing and applying should be wiped clean with white spirit or a similar solvent before the Concrex Acid Strength cures.
Shelf Life	12 months in unopened containers.
Storage	Store at an ambient temperature above 10°C for approximately 8 hours prior to use. Do not allow to freeze.
Safety.	All product labels provide general safety information. Material Safety Data Sheets are available. Food products must be removed from the area during application and cure.
Principle Limitations Please contact us regarding applications not described here.	Do not steam clean or subject the finished Concrex Acid Strength repair to temperatures above 60°C (140°F).

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CHEMICAL RESISTANCE				
Name and concentration	24 hours exposure to acid	7 days exposure to acid	14 days exposure to acid	28 days exposure to acid
Hydrochloric Acid 35%	**	**	**	**
Sulphuric Acid 95%	**	**	**	**
Nitric Acid 20% max	**	**	**	*
Phosphoric Acid 85%	**	**	**	**
Acetic Acid 5%	**	**	**	**
Tartaric Acid 10%	**	**	**	**
Oxalic Acid 10%	**	**	**	**
Citric Acid 10%	**	**	**	**
Lactic Acid 10%	**	**	**	**
Composition	**	**	**	**

Key	
**	Excellent
*	Good