

CEMIX



DIY GUIDES:

HOW TO USE CRYSTALPROOF



Most waterproofing solutions provide a membrane (thin film) barrier to stop water from going where we don't want it to go. Cemix® Crystal Proof Penetron is smarter than this and actually reacts with the cement & lime in the concrete and penetrates deep inside concrete to block the tiny capillary tracks with insoluble crystals. The other really great thing about Penetron crystal proof is that it will stop water flowing through concrete in either direction (Often described as the positive or negative side), therefore it can be applied either side of the concrete wall or either inside or outside a concrete tank.

For further technical information please visit our website <http://www.cemix.co.nz/cemix-penetron/>



USE YOUR SMARTPHONE TO SCAN OUR QR CODE TO SEE MORE ONLINE HOW TO GUIDES AND HOW TO VIDEOS.

TYPICAL APPLICATIONS

- ▶ On any leaking/rising damp concrete surface, including potable water tanks and concrete filled block walls (see note in limitations).

SURFACE PREPARATION

- ▶ For Cemix® Crystal Proof Penetron to work, the surface should be exposed to ensure direct contact with concrete/cement surface. This means no paint or any other coating should be present. The Cemix® Crystal Proof Penetron should penetrate into the concrete and block all the capillaries causing the leak/rising damp. The best preparation is to grind the surface, however water blasting or a good scrub with a metal brush will do. The more you can expose the surface- the better the result! For painted block walls where it is difficult to remove the paint fully, use Cemix® Aquastop instead.

MIXING



Add **350ml – 400ml** of water to a container and slowly add the powder whilst vigorous mixing till a consistent semi fluid paste (slurry) is achieved. Only mix a small amount at a time. Mix occasionally to prolong the pot life.



Visit our Cemix Channel on Youtube for our 'How To' videos





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APPLICATION



Step One:

Dampen the surface and then brush the slurry on to the exposed surface.

Step Two:

Ensure to apply at least **1.6 kg** of product on per **1m²**. You will require **2 - 3** coats to achieve this on a wall, but this can be achieved in **two coats** on a floor.

Step Three:

You can apply the **second coat** as soon as the first coat is touch dry. This is a fast drying product, therefore immediate application is required.

CURING

- ▶ This area should be kept damp for **7 days**. The first **3 days** is the critical period. Cover the area with a damp cloth or light spray of water **2 - 3** times a day are typical methods.

LIMITATIONS

- ▶ Will **ONLY** bridge micro cracks and capillaries up to **0.4mm**. For larger visible cracks greater than **0.4mm** in width, chase out cracks and fill with Cemix® Quick patch before applying Cemix® Crystal Proof Penetron.
- ▶ Not recommended on extremely porous concrete or blocks, or where there is very low cement content or inadequate block fill. On very porous block walls it is recommended to put on a coat of solid plaster (Cemix® Cemplaster) and before applying this product or alternatively use Cemix® Aquastop.
- ▶ After the Cemix® Crystal Proof Penetron has fully cured which is usually **7 days**, wash the surface thoroughly with a **1:100** weak solution of water plus vinegar. After a rinse with **water + vinegar**, flush clean the water tank a few times with fresh water to remove the alkalinity on the inside surface of potable water tanks prior to filling with potable water. If the surface is not cleaned properly, a mild alkaline taste will be evident in the water.
- ▶ Cemix® Crystal Proof Penetron is not a decorative material. It will often turn a blotchy white and brown colour over time.
- ▶ See datasheet at www.cemix.co.nz for further information on this product. Watch the Youtube video and contact the Cemix technical team if you require further technical assistance regarding the use of this product. Follow all safety instructions on the pack, wear gloves, mask and especially eye protection. Avoid contact with skin.

COVERAGE

Vertical Surfaces: Approximately **1.6kg** of product per **1m²**.

Horizontal Surfaces: Approximately **1.5kg** of product per **1m²**.

Packaging
2kg, 4kg, 10kg and 25kg.

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