



Cementitious waterproofing system by crystallisation

Matryx is a cementitious waterproofing system which protects and waterproofs concrete structures by crystallisation. The active chemicals react with moisture in the concrete resulting in crystalline formation within the pores and capillary tracts of concrete, thus waterproofing the structure against penetration of water and other liquids from any direction. Matryx gives a strong and lasting waterproofing protection against dampness and ground water hydrostatic pressure.

Fields of application

- Recommended for use on interior and exterior below grade concrete surfaces. Matryx gives protection against concrete decay and waterborne corrosive salts
- Can be used for negative waterproofing of concrete structures and on horizontal structural slabs against hydrostatic pressure as it provides strong resistance to impact and abrasion
- Basements
- Wet areas
- Tunnels
- Underground garages
- Planter boxes
- Structural concrete elements in high corrosion areas

Features

- Single component and easy to apply
- Can be used for positive or negative waterproofing of concrete structures
- Protection against rising dampness on ground slab
- Anti-corrosion coating

Technical data

Final Set		< 16 hours
Flexural Strength	7 days	4,8 N/mm ²
	28 days	8,6 N/mm ²
Compressive Strength	7 days	> 25 N/mm ²
	28 days	> 45 N/mm ²
Adhesion Strength		> 1,2 N/mm ²
Resistant to hydrostatic pressure when applied on negative side	28 days	> 0,8 MPa

Specifications are subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

Surface preparation

- The concrete surface must be clean and free from laitance, oils, grease, curing agents or other foreign matters. If surface is too smooth or highly contaminated with foreign particles, sand blast or acid etch surface before treatment.
- Concrete surface must be sound. Rout out visible cracks exceeding 0,4 mm wide, honeycombed pockets to depth of about 40 mm and width of 25 mm.
- Mix three parts of Matryx to one part water by weight, until stiff mortar consistency is achieved.
- Prime concrete surface with one slurry coat of Matryx before applying the mortar mix onto the area to be patched, tightly sealing the cavity.
- Matryx must be applied on damp substrate only to ensure maximum chemical penetration. Pre-wet substrate until damp prior to application of Matryx. If concrete surface dries out before application, it must be re-wet.

continued overleaf...

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Mixing

Mix 7,25 to 7,75 litres of clean water to 25 kg **Matryx**. Always mix the powder to the clean water by using a mechanical stirrer. Mix for 2 minutes until a smooth lump-free consistency is achieved.

Application

Apply a minimum of 2 coats in perpendicular directions, using a block brush or roller. The second coat must be applied while the first coat is still green but sufficiently set so that it is not drawn off while applying the second coat.

The mixed material must not be applied at temperatures below 5°C or on frozen surfaces. At no time should the total thickness exceed 5 mm in a single application.

Dry shake method (negative waterproofing)

Sprinkle **Matryx** powder directly from the packaging after allowing concrete to achieve initial set. Sprinkle Matryx at the rate of 3 – 3,5 kg/m² evenly and trowel to required finish or power float.

Dry shake method (positive waterproofing)

Sprinkle **Matryx** powder directly from the packaging at the rate of 2 kg/m² evenly onto the lean concrete substrate just before pouring the concrete.

Curing

After **Matryx** coating has hardened, cure the treated surface with a light mist of clean water at regular intervals three times a day, for the initial two to three days. In extremely hot weather curing period may have to be extended to several days.

Protection

Protection of **Matryx** is not obligatory. However, if used on external areas, subjected to heavy rain, harsh sunlight or frost, the finished application should be protected for at least 24 hours.

Packaging

25 kg bag

Shelf Life

Shelf life of 12 months stored in an unopened bag in a cool dry elevated place.

Coverage

For Slurry coat / Brush application method, apply at the rate of 1 kg/m² depending on the area of application.

Health and Safety

Matryx is a cement based product and contains alkali which may cause dermatitis.

We recommend that PVC or similar gloves and safety goggles should be worn during handling.

version 001-201203

Disclaimer: The use of this product is beyond the manufacturer's control and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. Specifications are subject to change without prior notice.

Available from Waterproofing Centres countrywide

www.waterproofingcentre.co.za

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