



DRYMIX

DRYPROOF

Permanently seals micro cracks and pores

CRYSTAL SHIELD



Penetrating crystalline concrete compound

DRYMIX DRYPROOF CRYSTAL SHIELD is a surface-applied compound that waterproofs by penetrating concrete surfaces to form a unique crystalline reaction with the free lime in the concrete. This reaction forms an insoluble permanent crystalline seal within the concrete, filling pores and fine shrinkage cracks. DRYMIX DRYPROOF CRYSTAL SHIELD can be used on both new and old concrete surfaces for waterproofing both positive and negative sides with a hydrostatic head of pressure.

THIS PRODUCT

- Is non toxic
- Becomes an integral part of the concrete
- Enhances concrete strength and durability
- Penetrates into the surface to ensure micro cracks and concrete pores are filled and permanently sealed
- Withstands positive and negative water pressure
- Can be applied over damp surfaces and freshly laid concrete
- Protects against chlorides, sulphates, sea water and varying pH water

CAN BE USED

- Basement walls – internal & external sides
- Retaining walls
- Lift pits
- Water retention structures
- Dams, canals and tunnels
- Concrete exposed to marine environments and chlorides

SURFACE PREPARATION

It is important that the surface to be treated has an open pore face and is not sealed. Surfaces must be free of any loose material, including existing coatings, sealants, greasy residues and organic growth. All voids and surface cracks to be filled with suitable repair mortar compound.

For dense concrete surfaces, pores and capillaries should be formed in the surface by either acid washing or roughening the surface, followed by a high pressure water blast to ensure the surface is porous and able to absorb DRYMIX DRYPROOF CRYSTAL SHIELD. If applying to concrete block walls, walls must have a free lime presence.

MIXING

- Pour DRYMIX DRYPROOF CRYSTAL SHIELD into a clean empty pail
- Slowly add 300mls of clean water per 1kg of DRYMIX DRYPROOF CRYSTAL SHIELD while mixing on low speed with drill and paddle mixer attachment
- Continue to mix for 2-3 minutes until the mixture is free of lumps and a smooth slurry consistency is formed
- Allow to settle for 1-2 minutes and lightly re-stir before using

IMPORTANT

Pot life is approx. 20 minutes so volume mixed should not exceed what will be used within 20 minutes. Once product has dried or settled, do not re-mix. Remove the residue and commence with a fresh batch.

PRIME

All surfaces must be pre-dampened by water mist or watering area down prior to applying the slurry.

APPLY THIS PRODUCT BY

Using a stiff bristle brush, apply the product in a liberal coat ensuring all surface pores are covered. Best results are achieved in 2 coats. Coverage of first coat is approx. 0.8 – 1.0kg/m² followed by a second coat at a coverage of 0.6 – 0.8kg/m². Total coverage should be approx. 1.6kg/m².

IMPORTANT

Second coat should be applied within 4 hours of the first coat ensuring first coat is still slightly damp before reapplying. Do not allow the first coat to fully dry before applying the second coat.

CURING

Proper curing of the DRYMIX DRYPROOF CRYSTAL SHIELD is important to ensure optimum performance. This involves keeping the area damp/wet by covering for a period of 4-5 days and not letting the surface dry out. Surfaces should be protected from frost during this period.

DRY TIMES

Pot Life of mixed product	20 minutes
Recoat	Within 4 hours or until first coat is firm enough to not be disturbed by application of 2nd coat
Full Cure	4-5 days

POINTS TO TAKE NOTE

- Ensure surface is properly prepared with open pores and pre-dampened prior to applying product
- Surface temperature is to be 5°-30°C
- Use a stiff bristle brush to apply, working the product into the surface. Do not apply by roller coat.
- Rubber gloves, protective eye wear and face cover should be worn when mixing and applying product
- DRYMIX DRYPROOF CRYSTAL SHIELD is NOT designed to be finished over with renders, tile adhesives, self-levellers etc.
- All active leaks should be repaired first using DRYMIX DRYPROOF WATER PLUG.
- Do not apply if early rain is forecast within a 24 hour period to prevent wash out.
- If applying to concrete blocks walls, surface must have a free lime presence

CLEAN UP & STORAGE

- Clean up spills and tools in water while product is wet. Once product is dried you will need to remove using a sander, grinder or another mechanical method
- When not in use keep at room temperature under cover and away from sources of moisture
- Do not expose to prolonged cold freezing conditions or in direct sunlight
- Shelf life is 12 months

COLOUR

Colour: Grey