

HydroGuard® Pro Admix Water Block

ADMIXTURE

Description:

A hydrophilic crystalline admixture designed to provide permanent waterproofing properties to cementitious masonry & concrete mortars. When mixed with mortar, its proprietary chemistry reacts with water and un-hydrated cement particles to form insoluble, needle-like crystals. These crystals grow within capillary pores and micro-cracks of the mortar matrix, sealing internal voids and blocking the pathways that would otherwise permit water or waterborne contaminants to penetrate. Unlike surface coatings, the protection remains active for the life of the mortar: any moisture introduced—even long after initial curing—triggers further crystallization, maintaining watertight performance.

Intended Uses:

HydroGuard® Pro Admix Water Block is designed for use in applications where long-term waterproofing of mortar is required, some typical applications include:

- Renders & Plasters – In decorative stucco & other thin topping mixes to be applied on masonry walls.
- Concrete Masonry Unit (CMU) Manufacture – Whereby the admixture is incorporated into the block or brick itself to reduce absorption & permeability.
- Masonry Joint Mortar – Incorporation into the mortar used between block or brick units.

Features & Benefits:

- Permanent Waterproofing – The crystalline network formed within the mortar remains active over time, reactivating with moisture to self-seal micro-cracks.
- Enhanced Durability — Resists degradation from salt exposure, freeze–thaw cycles, and general moisture ingress.
- Corrosion Protection — Helps protect embedded steel reinforcement (if any) by limiting water penetration.
- Improved Aesthetic Longevity — Reduces efflorescence, mold growth, mildew, and rust staining by limiting water absorption.
- Self-Sealing — Minor shrinkage or micro-cracks are automatically sealed as moisture enters, helping prevent leak paths
- High-Pressure Resistance — Capable of withstanding water under pressure (for example, wind-driven rain).
- Cost-Effective Installation — Eliminates the need for surface-applied sealants, reducing labour and material costs.
- Workability — Does not negatively affect mortar performance; it can even improve adhesion and reduce cracking.
- Lifetime Performance — Built into the mortar, it continues to function without maintenance for the full life of the structure.

Certifications:

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Technical Data:

Product Physical Form	Powder
Colour	White
Density (Kg/ Lt @ 23°C)	0.7 ± 0.05
Dosage Instructions	2% by weight of cement/mortar mix For every 50 Kg of cement/mortar mix add 1 Kg of HydroGuard® Pro Admix Water Block
Pack Size	20 Kg
Storage	Store out of direct sunlight in dry conditions between 15°C and 25°C
Shelf Life	12 months when stored as recommended in original un-opened containers

WATERPROOFING: CEMENT ADMIXTURES

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Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

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Important Information:

- Always consult with technical department if unsure.
- Technical & application data herein is for the purpose of establishing a general guideline of the product application procedure.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection & verification of the performance and use of this product.

Surface Preparation:

In general, the following guidelines for preparation should be adhered to. Always consult for a detailed specification.

- Ensure masonry units or substrates are structurally sound, clean, and free from loose particles, dust, oil or other contaminants that may interfere with mortar performance.
- Pre-Wetting is not typically required for masonry units, but they should not be excessively dry or soaking wet. Moderately damp units help ensure good bonding of the mortar.

Application:

Dosage:

The typical recommended dosage is around **2% by weight of cement/mortar mix. For every 50 Kg of cement/mortar mix add 1 Kg of HydroGuard® Pro Admix Water Block. (or as per project specification).**

In certain cases (e.g for enhanced damp-proofing) the dosage may be increased, but this should be done in consultation with a technical representative.

Mixing:

The dry HydroGuard® Pro Admix Water Block must be added directly into the mortar mix. Mix for at least 5 minutes to ensure full dispersion and activation.

Assess whether adding extra water is necessary, because the admixture typically reduces the need for extra mixing water.

Application of Mortar:

Cement/mortar mix can be applied in the usual way. (e.g for bricklaying, rendering, plastering). For rendering and plastering, if increased damp-proofing is required, consider applying a thicker mortar layer.

Curing:

Protect freshly applied mortar from rain until it has hardened sufficiently and shield from direct sun or strong wind for at least the first 24 hours.

Cure by misting periodically (or by other standard curing methods) for at least 48 hours (or as project requirements dictate) to promote proper hydration and crystallization.

Systems:

Consult with Specialized Coating System for application specific recommendations.

Safety Information:

- Refer to product SDS for health & safety prior to using products.
- Always wear safety clothing / protection. Respirators, eye protection and skin protection.
- Apply in well-ventilated areas.

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