

WATERGUARD CRYSTALLINE

Brush applied cementitious crystalline waterproofing coating

BENEFITS

- Economical and easy to use
- Excellent adhesion
- Non-toxic
- Allows the surface to breathe
- Excellent waterproofing characteristics
- Contains no chloride
- Penetrates concrete, sealing capillary tracks
- Easy to apply
- Resists extreme hydrostatic pressure from either positive or negative surfaces of the concrete slab
- Becomes an integral part of the substrate
- Highly resistant to aggressive chemicals
- Can seal static hairline cracks up to 0.5 mm

DESCRIPTION

WATERGUARD CRYSTALLINE is a prepacked, single-component powder based material. It has processed cements and special fillers that can be brush-applied to well-prepared, sound substrates to provide an extremely tough, durable waterproof coating. It should be applied at a thickness of 2-3 mm for water tanks, basements, etc., where water under hydrostatic pressure exists.

WATERGUARD CRYSTALLINE becomes an integral part of the concrete surface, thereby eliminating problems normally associated with coatings (e.g., scaling, dusting, flaking, and delamination). The active chemicals react with the moisture in the fresh concrete, causing a catalytic reaction that generates a non-soluble crystalline formation within the pores and capillary tracts of the concrete.

WATERGUARD CRYSTALLINE complies with **ACI-212-3R-2010** and **DIN 1048**.

USES

WATERGUARD CRYSTALLINE is used for all structures that need to be waterproofed and protected against moisture ingress, such as basements, lift shafts, water tanks, swimming pools, sewage tanks, retaining walls, reservoirs, bridge pillars, dams, tunnels, dock gates, etc.

PROPERTIES

WATERGUARD CRYSTALLINE, when used as recommended, combines with water and cement to form an impermeable coating by blocking the capillaries and pores, i.e., waterproofing by crystallization.

APPLICATION

Surface Preparation: All leaks and water jets must be stopped using **CHEMCORE WATERPLUG**, plugging compound. The substrate must be sound, clean, and free from loose particles, laitance, or contamination, and present cracks must be treated with **CRACKSEAL** (refer to the separate data sheet).

Mixing: **WATERGUARD CRYSTALLINE** should preferably be mixed mechanically using an electric drill with a paddle attachment.

Application Method	Area of Application	
	Vertical surfaces	Horizontal Surfaces
Brush	5 Parts of WATERGUARD CRYSTALLINE to 2 parts of water	5 Parts of WATERGUARD CRYSTALLINE to 2 parts of water
Spray	5 Parts of WATERGUARD CRYSTALLINE to 3 parts of water	

Application: The prepared surface must be thoroughly wetted with water for absorption, and excess water should be removed. **WATERGUARD CRYSTALLINE** must be applied in 2-3 uniform coats at an application rate of 0.7-1.5 kg/m² per coat on the water pressure side of the structure. The mixed **WATERGUARD CRYSTALLINE** will remain workable for 20 minutes. Mixing in small quantities is recommended.

Cleaning: All tools must be cleaned with water immediately after use.

PACKING & COVERAGE

WATERGUARD CRYSTALLINE is available in 25 kg bags. Two or three coats are recommended.

Area of Application	Coverage
Vertical surfaces	~0.7 kg/m ²
Horizontal surfaces	1.0-1.2 kg/m ²
Construction joints	~1.5 kg/m ²

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SHELF LIFE & STORAGE

WATERGUARD CRYSTALLINE has a shelf life of **12 months** in unopened containers when kept in dry conditions at a temperature between 5°C and 35°C. The material must be kept in a shaded area and away from direct sunlight. Storage at higher temperatures or high humidity may reduce shelf life.

HEALTH & SAFETY

WATERGUARD CRYSTALLINE is non-toxic, and any splashes on the skin can be washed off with water.

SPECIFICATION

Supply and apply **WATERGUARD CRYSTALLINE**, a cementitious waterproofing material manufactured in compliance with ISO 9001, ISO 14001, and ISO 45001 (Occupational Health and Safety) certified by ISOQAR/UK. It complies with ACI-212-3R-2010 and DIN 1048. The pot life of **WATERGUARD CRYSTALLINE** is 20 minutes after mixing, providing a vertical coverage of approximately 0.75 kg/m², horizontal coverage of 1.0-1.2 kg/m², and construction joints coverage of approximately 1.5 kg/m². It is applied using a brush in accordance with the instructions of CHEMCORE.

QUALITY ASSURANCE

Fairmate manufactures entire range of construction chemicals under compliance of ISO 9001, ISO 14001 & ISO 45001 (Occupational Health and Safety) certified by ISOQAR/UK.

TECHNICAL SERVICES

While new advances and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our quality control laboratory and technical experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.

OUR RANGE OF PRODUCTS

CONCRETE ADMIXTURES
WATERPROOFING SYSTEMS
ENGINEERING GROUTS
INDUSTRIAL FLOOR SURFACES

CONCRETE REPAIRS
SURFACE TREATMENT
SEALANT
PREPACKED CONCRETE & MORTAR

PROTECTIVE COATING
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