

Shieldproof CR100

Crystalline Waterproofing Admixture for Concrete and Mortar



MICSHIELD®

Description

Shieldproof CR100 is a high-performance, crystalline powder waterproofing admixture designed to provide long-lasting protection against water ingress and moisture. Ideal for use in concrete structures such as foundations, water storage tanks, reservoirs, potable water tanks, swimming pools, and similar applications. It penetrates the concrete matrix, initiates an insoluble crystalline network that becomes an integral part of the concrete, effectively sealing capillaries and pores, enhances durability and resistance to water, moisture, chemicals, and corrosion of reinforcing steel, as well as reduces the risk of deterioration, extending the life of concrete structures under aggressive environmental conditions.

Uses

- Provides concrete protection from water in:
 - Water tanks and reservoirs.
 - Walls and concrete slabs.
 - Swimming pools.
 - Concrete slabs.
 - Below-ground structures such as foundations, basements, retaining walls, and tunnels.
 - Closing the concrete capillary of in-service water-containing structures that require a nontoxic solution.

Characteristics / Advantages

- Ensures concrete waterproofing under high hydrostatic pressure.
- Reduces the capillary water absorption of concrete.
- Enhances concrete resistance to service conditions; freeze/thaw cycles, deicing chemicals, and moisture.
- Sealing hairline cracks up to 0.4 mm.
- Vapor permeable.
- Provides corrosion protection.
- Compatible with all types of Portland cement.

Shelf Life and Storage

Shieldproof CR100 has a shelf life of 12 months when stored in its original unopened containers in cool and dry conditions, protected from direct sunlight, heat, and moisture. Shelf life may be reduced if the recommended storage conditions are not followed.

Typical Properties

Appearance / Color	Grey powder
Specific Gravity @ 23°C	1.20 ± 0.05
Water Permeability Reduction	35 – 40%
VOC	Nil

Application Instructions

Dosage and Application

0.8 – 1.0% by weight of cement and supplementary cementitious materials. Add **Shieldproof CR100** to the concrete mix along with the mixing water. It is always recommended to carry out trial mixes to achieve optimal waterproofing performance.

Cleaning

All equipment should be cleaned immediately with clean water after use.

Packaging

Shieldproof CR100 is supplied in 20 kg bags.

Safety Instructions

Refer to the most recent Material Safety Data Sheet for information and advice on the safe handling, storage, and disposal of the product.



Limitations

- Do not apply the product if the ambient temperature is less than 5°C.
- Hot weather practices should be adopted during application and curing if the temperature is above 35°C.
- Extra dosage might cause significant retardation and higher workability.

Technical Support

Refer to technical information, method statement, or contact technical support team for any inquiry.

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