THE CORE CHEMICALS

Core Lock

Integral Crystalline Waterproofing Coating

Description

Core Lock contains moisture activated additives that play a major role as catalysts in the formation of water-insoluble crystalline micro structures deep within the capillaries and interstices of concrete and mortar. As the crystalline-capillary waterproofing system enables effective pore sealing, it does not rely on film formation on the surface and is not affected by the negative hydrostatic pressure.

- Ensures good water tightness.
- Protects concrete and reinforcement against waterborne substances.
- Crystalline action is reactivated by contact with water providing additional protection.
- Effective against both positive & negative water pressure.
- Non-toxic and non-tainting.

Recommended Uses

Water Retaining

- Water tanks and reservoirs
- Swimming pools
- Water treatment works
- Dams
- Canals
- Harbours
- Concrete pipes
- Bridge decks
- Jetties
- Pontoons

Water Excluding

- Basements
- Tunnels
- Inspection pits
- Foundations.
- Construction joints
- Retaining walls and lift shafts

SERVICES

- Cementetious coating
- Crystalling Coating
- Addmixture
- Sealant
- Grout
- Epoxy primer
- Repair Mortar
- Flooring
- PU flooring
- PU coating
- Bitumen Coating
- Latex
- Waterstopper

Technical Data

Color	Powder-grey
Consumption	1 kg/m² per coat, minimum two coats

Important Information

Supplied in: 25kg bag.
Storage: Dry, frost free area. Out of direct sunlight.
Shelf life: 6 months.
Hazard Class: No dangerous goods. Consult MSDS for details

Directions for Use

New Construction:
The usually only leaking point in the new construction of water excluding or retaining structures are construction or day work joints. Costly remedial work can be avoided by the use of Core Lock as a dry shake onto the horizontal surfaces of joints or as a dry slurry on vertical surfaces. In conditions of high-water table, Core Lock may be applied as a slurry or dry shake over concrete immediately, prior to casting the slab on grade. This sandwich system will prevent ingress of ground water thus preventing deterioration, dampness or flooding. Foundations should be treated on the external face wherever possible, as should the face of construction joints. Core Lock can be applied immediately after the removal of formwork, as the water curing process required will also ensure full hydration of the concrete. If the treatment is to be exposed and an aesthetically pleasing finish is required, Core Lock after curing should receive a sand/cement render on which to apply the desired finish.

Existing Construction:
Structures subjected to water leakage must be carefully inspected to determine the cause. Any water should be cleared away so that a through survey can be conducted. Static cracks over 1mm must be chased out, damped down and repaired with Core Lock render on a Core Lock coat. Dynamic cracks must be formed into watertight elastomeric movement joint.

Application Guidelines

Mixing:
Always add water to Core Lock. Mix 1 part of water and 2.25-2.50 parts of Core Lock.

Application:
Core Lock mixes are applied by brush or spray onto dampened substrate. Apply material in 2 coats at right angles, the second coat whilst the first is firm, but “green” - usually applied 3-4 hours after first coat (dependant on temperature). For old concrete, brickwork and granular concrete blocks replace second coat with a render 5-10mm thick.

Curing:
Core Lock must be prevented from drying out too rapidly and should be kept damp for 5-7 days. Mist spraying ad conveying with polyethene is effective when drying out would otherwise take place. Curing compounds are unsuitable for use with Core Lock system technology. Protects from weathering, sun, frost and wind for a similar minimum period. Tanks and other water retaining structures may be filled 24 hours after final Core Lock application as crystal growth is accelerated by water pressure.

Safety Precautions:
As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuff. Treat splashes to eyes and skin immediately. If accidently ingested, seek immediate medical attention. Reseal containers after use. Core Lock should be handled to minimize dust formation during mixing. Use a light mask if excessive dust is unavoidable. For further information refer to material safety datasheet.

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