

TECHNICAL DATA SHEET

BLOCKOUT CRYSTOR

Crystalline Capillary Waterproofer

PRODUCT DESCRIPTION

BLOCKOUT CRYSTOR is a crystalline waterproofing formulation of selected blends of cement, very fine treated silica sand, and various proprietary active chemicals providing a lasting imperviousness to water. **BLOCKOUT CRYSTOR** is a unique chemical treatment for the waterproofing and protection of concrete. In the presence of moisture, the active chemicals in **BLOCKOUT CRYSTOR** penetrate concrete and react chemically with free lime to produce insoluble crystals. This crystalline growth reduces porosity by blocking capillaries and filling hairline non-structural cracks caused by shrinkage or expansion.

CUSTOMER BENEFITS:

- Ready to use, easy to apply
- Very economical
- For internal and external applications
- Can be applied on green concrete
- Can be painted over
- For use in contact with potable water
- Effective treatment for hydrostatic conditions

AREAS OF APPLICATION:

BLOCKOUT CRYSTOR can be applied on both new and old structures either on the water retaining side or on the negative side. **BLOCKOUT CRYSTOR** is recommended for the following typical applications:

- water treatment and sewage structures
- basement walls
- irrigation tunnels
- supporting walls and columns
- tunnels, manholes, silos
- foundation slabs inside underground garages

INSTRUCTION FOR USE

SURFACE PREPARATION

Concrete surfaces must be clean and free of laitance, dirt, and other foreign matter. Remove any existing coatings and laitance by acid etching, water blasting, or sandblasting. Roughen any smooth surface. Structural defects such as cracks, faulty construction joints, and honeycombing should be properly repaired. Moisten the surface, ensuring it remains slightly damp before applying **BLOCKOUT CRYSTOR**.

MIXING

Prepare the slurry coat by mixing a 25 kg bag of **BLOCKOUT CRYSTOR** with 8.75 liters of clean water. Mix thoroughly with a slow-speed drill equipped with a recommended mixing paddle until a creamy consistency is achieved. Allow the mixture to rest for 15 minutes. The mixture should adhere to the brush without dripping. If the mixture thickens, re-stir to reduce consistency. Do not add additional water.

APPLICATION

Apply **BLOCKOUT CRYSTOR** slurry coat may be applied with a brush or broom. Ensure thorough coverage, working the slurry into openings, rough surfaces, and joints. Allow a 24-hour interval for curing before applying the second coat. Finish by making final strokes in one direction.

DRY SHAKE FOR NEWLY POURED CONCRETE

Use **BLOCKOUT CRYSTOR** directly from the container. While wearing rubber gloves, distribute the powder evenly by hand over freshly poured concrete at a rate of 1.25 to 1.35 kg/m² per application before the final troweling works. It is best to distribute the powder at half the recommended rate in one direction, and the other half at a right angle to the first application.

FINISHING

When the last coat has stiffened, float it to the desired texture with a sponge or wood float.

CURING AND PROTECTION

After the **BLOCKOUT CRYSTOR** has reached the initial setting, keep the applied **BLOCKOUT CRYSTOR** moist for a minimum of 48 hours to ensure proper curing and achieve optimal strength and durability. Spray a fine mist of water onto the surface three times a day for 2-3 days. In warmer conditions, more frequent spraying may be necessary. Protect the freshly applied **BLOCKOUT CRYSTOR** from extreme weather conditions such as rain or high temperature for at least 48 hours after application.

For water retaining structures, allow 14 days of curing before filling with liquid.

Note: Do not use **BLOCKOUT CRYSTOR** over a previously coated surface without proper surface preparation.

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PACKAGING

BLOCKOUT CRYSTOR is available in 25 kg and 5 kg bags.

CONSUMPTION

Recommended consumption:
1.0 – 1.3 kg/m² for 2 layers applied by brush

Note: *The coverage rates provided above are for guidance purposes only. Actual usage may vary depending on the specific substrate conditions and application methods.*

STORAGE AND HANDLING

BLOCKOUT CRYSTOR has a shelf life of 12 months if maintained in dry storage conditions in unopened bags.

PRECAUTIONS

HEALTH AND SAFETY

BLOCKOUT CRYSTOR may cause irritation to the eyes and skin. Protective goggles, face masks, rubber gloves, and long sleeves should be worn when using the product.

Refer to the latest Safety Data Sheet (SDS) for comprehensive safety information on the proper handling of this product.

WARRANTY AND DISCLAIMERS

The information provided in this technical data sheet is based on our best knowledge and testing methods. Any product use outside of specifications or improper storage or installation voids any warranty. Users are encouraged to conduct their own testing to assess product suitability. Always consult the product's safety data sheet (SDS) for safety guidelines and follow recommended precautions. We reserve the right to update this data sheet without notice, and users should ensure they have the latest information.