

## CRYST BOND®

Article-No.: 02300

### ACRYLIC BONDING AID AND ADDITIVE

#### DESCRIPTION

CRYST BOND® is a high solid aqueous dispersion of styrene acrylic Co-Polymer in liquid form. The dispersion contains an anionic emulsifier system & is free from film forming aids, APEO, solvents, and plasticizers. CRYST BOND® specially designed for universal use such as a high strength admixture, curing agent, and bonding agent for cement mortar and concrete. It provides excellent resistance to impact, abrasion, hydrolysis, moisture and attack by acids or other water-soluble chemicals. As a polymer modifier, it provides improved cement hydration and bonding properties that allow for applications as thin as a feather edge. When used as a bonding slurry, the bond strength is retained even in damp exterior conditions. It can be used for bonding fresh mortar or concrete to existing concrete or other sound substrates, such as brick or block, in nonstructural applications.

#### FEATURE AND BENEFITS

- Ideal use for internal and external application.
- Multipurpose polymer for waterproofing and repair.
- High solid content.
- Corrosion inhibiting.
- It is free of fillers and polyvinyl acetate.
- Single component liquid can be easily used.
- Minimizes cracking and Resists moisture.
- Improves strength, cohesion, workability, and bond to concrete, masonry, stonework, plaster, and cement boards.
- Improves mortars to provide waterproof repairs, renders and toppings which are highly resistant to freeze/thaw cycling.
- Improved tensile and flexural properties allow thin applications
- Suitable for use on damp and dry concrete.

#### FIELD OF APPLICATION

Suitable for use on all interior and exterior applications and to improving the physical properties of cementitious mix. Typical uses include, but are not limited to, the following:

- Admixture for cement sand mixes
- Bonding agent between multiple lifts of self-leveling, screeds, concrete, slip bricks, ceramic tiles, plasters, renders, cementitious repair materials, and fair-faced concrete.
- Primer for porous or non-porous substrates.
- Curing membrane, ready to receive further cementitious renders by re-priming.
- As two-components for Waterproof renders and cementitious waterproofing membranes it lead to make the slurry flexible.

#### MATERIAL PROPERTIES

Form:	liquid
Appearance:	white
Density:	approx. 1.04 g/ml
Application temperature :	+8°C up to +40°C
Viscosity:	approx. 220 mPas
pH-value:	approx. 10
Film Properties:	clear & tacky

## DIRECTION FOR USE

### Surface preparation:

Surface must be solid, stable, sound and clean from adhesion inhibiting substances such as separating agents, dust, oil, grease, gypsum, paint, algae or bitumen must be removed before the application. Unsound concrete surfaces must be prepared to solid sound concrete.

### Application:

Application as a bonding aid (primer):

The substrate should be thoroughly soaked with clean water with any excess removed prior to commencement of the works. Apply CRYST BOND® to properly prepared concrete substrate by roller, brush, or sprayer and avoid ponding and remove any excess. The cementitious repair materials, plasters, self-leveling and screeds should be applied whilst the primer is still tacky.

Application as an admixture:

The CRYST BOND® can used as additive to the cement mortar or concrete for improve application properties and increasing the mechanical properties. CRYST BOND® enhance the mix to be applied in horizontal, vertical and overhead patching applications. It may be used to replace all or part of the mixing water in cement mortar or concrete.

### Product mixing:

CRYST BOND® is enhancer to be added to cement, cement mortar, concrete, and grout depending on the type of application. Agitate and thoroughly mix the CRYST BOND® liquid immediately prior to use.

### NOTE:

- CRYST BOND® should be removed from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically.
- DO NOT the Application at temperatures below 5°C, to a frozen substrate or if temperatures will drop below freezing during the curing period (approximately 24 hours).
- For more detailed instructions, or information concerning the compatibility of the CRYSTARM® application contact the CRYSTARM® Technical Department or your local CRYSTARM® representative.

### Curing

All cementitious materials, they must be cured immediately after finishing in accordance with good concrete practice. Cure the concrete, or mortar surface by using CRYST BOND® to prevent rapid loss of water. Sprayed on to the finished surface in a continuous film. Protect uncured concrete and mortar from frost and rain. In severe drying conditions additional curing methods may be necessary such as supplementary curing with polythene sheeting must be used.

### Application rates:

CRYST BOND® Coverage as a primer approximately 7 m<sup>2</sup>/L depending on the porosity of the substrate.

CRYST BOND® Coverage as a as a curing aid approximately 6 m<sup>2</sup>/L 7 m<sup>2</sup>/L depending on the porosity of the substrate.

### RECOMMENDED TOOLS

Stirring mixer machine, mixing pail, gloves, and safety glasses.

### PACKAGING

CRYST BOND® is available in 5 litter, or 20 liter container.

### BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

### **STORAGE & SHELF LIFE**

Keep CRYSTARM products must be stored dry and at a temperature of no less than 45°F (7°C). one year is the maximum shelf life when stored under proper conditions in original unopened packaging

### **SAFETY HANDLING**

Avoid contact with eyes and skin. Take adequate precautions, such as wearing protective gloves and using breathing apparatus if applied in enclosed environments. If contact is made, flush areas with lots of water. For further information please refer to Safety Data Sheet. **KEEP OUT OF REACH OF CHILDREN.**

### **CRYSTARM®**

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**WARRANTY:** The Manufacturer warrants that the products manufactured by it conform to the formulation standards contained in all components in their proper proportion and are free from material defects. If any of the products are found to be defective the subsequent liability to The Manufacturer shall be limited only to the replacement of the product proven to be defective and shall not be liable for any other claim or for incidental or any consequential damages that may arise directly or indirectly with the said defective product. The user shall determine the suitability of the product for its intended use and the user assumes all liability in connection therein and the manufacturer shall not be liable save for terms of this warranty.