

VX Guardian C Crystalization is a protective cement coating for concrete surfaces to make them waterproof. This material reacts with water vapor to form crystallization on the capillary layer of water and gaps, which will prevent further water penetration into the concrete. VX Guardian C Crystalization is applied by brushing, rolling, or spraying onto exposed areas and does not require special protection or shielding. It is recommended for use in areas such as swimming pools, tunnels, parking lots, below-grade foundations, roofs, basements, water tanks, concrete pipes, marine structures, bridges, concrete floors, and walls.

## APPLICATION AREA

- Easy to apply with brushes, sprays, and squeegees.
- Reacts with water.
- Enhances the durability of concrete.
- Protects against small gaps and cracks.
- Stops water penetration into concrete.
- Provides the best quality at an affordable cost in the industry.

## TECHNICAL DATA

<b>Density (mixed)</b>	~ 1.7 – 1.8 gr/ml
<b>Solid content</b>	100%
<b>Bond strength to concrete (pull-off) (ASTM D 4541)</b>	~ 0.8 N/mm <sup>2</sup>
<b>pH</b>	~ 13
<b>Permeability</b>	< 5cm
<b>Water Resistance (full cure)</b>	Excellent

## PACKAGING

VX Guardian C Crystalization is packaged in 25 kg/zak.

## STORAGE

VX Guardian C Crystalization has a shelf life of up to 12 months, as long as the packaging remains unopened and stored in a cool, dry place.

## PRODUCT SPECIFICATION

<b>Form</b>	Powder
<b>Type</b>	Calcium silicate hydrate waterproof cement coating
<b>Mixing ratio with water (by weight)</b>	Water : Powder 1 : 3 (brush/roscam) 1 : 2.5 (spray)
<b>Colour</b>	Grey (Natural)
<b>Finish</b>	Matte/Doff
<b>Drying time to concrete (30° C)</b> <b>Surface Dry</b> <b>Final Set</b> <b>Full Cure</b>	± 90 minutes ± 24 hour 7 days
<b>Application temperature</b>	> 5 °C
<b>Coverage</b>	1 – 1.6 kg/m <sup>2</sup> (2x Coating)
<b>Recoating interval to concrete (30° C)</b>	± 90 minutes
<b>Toxicity</b>	Non toxic

## **APPLICATION**

### **I. SURFACE PREPARATION**

- The substrate must be clean and free from dirt, dust, and other debris.
- The concrete surface must be smooth and even without any protrusions or sharp indentations. If the concrete is damaged or porous, it should be repaired first, preferably using Vexcolt High Strength Cementitious Mortar or Vexcolt Epoxy Paste patch repair mortar

### **II. DETAIL**

- All sharp corners must be provided with special supports to prevent them from being too sharp. These supports are made of special non-shrinking mortar of good quality.

### **III. APPLICATION**

- The coating can be applied using a regular paintbrush, spray, or squeegee.
- It is recommended to apply at least 2 coats with overlapping or alternating directions

## **HEALTH AND SAFETY**

VX Guardian C Crystalization can cause irritation to the eyes and skin. Use skin and eye protection when mixing and/or using VX Guardian C Crystalization. If it comes into contact with the skin, wash with soap and water. If it comes into contact with the eyes, flush with warm water for several minutes.