

## ISOLION CRS 2K 120

### TWO-COMPONENT CRYSTALLINE WATER INSULATION MATERIAL

<b>Product Definition</b>	<ul style="list-style-type: none"><li>› It is a water insulation material that is two-component, cement and copolymer-based, applied to concrete surfaces, reinforced with special chemicals against water pressure coming from negative and positive directions, serving as a plug by establishing a crystal structure in capillary cracks within the concrete. In addition to handling the concrete surface as crystallized flexible and creates a layer resistant to and in this way, two-stage protection.</li></ul>
<b>Fields of Use</b>	<ul style="list-style-type: none"><li>› In horizontal and vertical surfaces water insulation,</li><li>› Water insulation of negative or positive sides,</li><li>› Above ground and under ground structures, waterproofing,</li><li>› Used in waterproofing concrete, plaster and alum together.</li></ul>
<b>Characteristics and Advantages</b>	<ul style="list-style-type: none"><li>› Thanks to crystallization feature, it prevents water infiltration from the surface effectively.</li><li>› It is resistant to positive and negative water pressure.</li><li>› It is easy to use, only mixed with water.</li></ul>
<b>Application Details</b>	<ul style="list-style-type: none"><li>› Surfaces clean, robust, carrier and must be free from particles released. Layer that may decrease adherence such as oil, grease, paint, cement grout, rust, mold oil and salt emission should be completely cleaned prior to application. Surface should be roughened by mechanical means in areas deemed necessary. The surface to be holes, cracks, segregations, mold defects, should not contain cracks, it must be smooth and must not create dust. Application will be made on damp surfaces, dry surfaces moisturized before you apply. 24 hours prior to humidification operation, and again 2 hours ago, surface is saturated to water completely. Care should be taken not to pond the surfaces.</li></ul>
<b>Surface Preparation</b>	
<b>Application</b>	<ul style="list-style-type: none"><li>› ISOLION CRS 2K 120B Component (liquid) is mixed with 5 – 6 litres of clean in an appropriate container.</li><li>› After adding A component (powder) under continuous mixing, it is mixed with the help of low speed mixer or a drilling machine (400 rpm). As a result of mixing process, the homogeneous mortar is achieved that does not contain pellets and in durable consistency. ISOLIO CRS 2K 120 that is ready for use is applied with a hard brush or spray equipment. Application is made in 2 or 3 layers. Layers should be homogeneous and applied properly, application should be made in the same direction on each layer. Drying between coats expected (at least 3 hours), but should not exceed more than 24 hours.</li></ul>
<b>Warnings and Recommendations</b>	<ul style="list-style-type: none"><li>› During coating process, it should be paid attention not to harm insulation material mechanically.</li><li>› Since it is cement based, do not breathe its powder; do not contact it with skin and eye.</li><li>› The amount of water determined only within the mixture fluid and do not get out of.</li><li>› Do not add foreign substances.</li><li>› Hands should be cleaned with water and detergent before the product receives complete cure and hardens.</li><li>› Immediately after application, before hardening, equipments should be cleaned with water. After the product hardens, it should be cleaned by mechanical means.</li></ul>

## Technical Specifications

Color	Gray (mix)
Appearance	A component powder, B component liquid
Application Temperature	(+5°C)- (+35°C)
Mix Ratio	3 l Liquid Component + 5-6 l water / 25 kg powder
Counter Life	>20 min.
Adhesion to Concrete Strength (EN 1542)	≥ 2.0 N/mm <sup>2</sup>
Waterproof	7 bars (negative and positive direction)
Capillary Water Absorption Value (EN 1062 - 3)	≤ 0.1 kg/m <sup>2</sup> h <sup>0,5</sup>
Water Vapor Permeability (EN ISO 7783)	Class I; Sd < 5 (Sd: Equivalent air layer thickness)
Fresh Mortar Density	1.8-2.0 g/l

\*\*\* Tests have been performed in the laboratory environment at 23°C and 50% relative humidity.

## Consumption

Against moisture (at 2 layer)	2.0 kg / m <sup>2</sup>
Against unpressured water (at 2 layer)	3.0 kg / m <sup>2</sup>
Against pressurized water (2-3 layer)	4.0 kg / m <sup>2</sup>
Negative way waterproofing	min. 3.0 kg / m <sup>2</sup>
Combined with bituminous materials (1-2 layers)	2.0-2.5 kg / m <sup>2</sup>

## Packing

› A (powder component) in 25 kg craft bag, B (liquid component) in 3 kg plastic drum.

## Shelf Life

› Store in its original package in dry and cool environment. It has a 12 month shelf life.  
› In a dry and cool environment, liquid component (temperatures over +5°C), store in its original package without opening. Do not left under sunlight and protect against freezing. It has a 12 month shelf life.

## Standard

› Conforms to TS EN 1504-2 standard.

