

## ISOLION SURFACE HARDENER

<b>Product Definition</b>	<ul style="list-style-type: none"><li>› It is a high resistance powder mixture that is applied on cement-based one-component, Quartz aggregated fresh concrete as powder spraying and that increases resistance of concrete against pollinating, wearing and chemical substances at light and medium loads, and allows to obtain various colored surfaces.</li></ul>
<b>Area of Use</b>	<ul style="list-style-type: none"><li>› In internal and external areas,</li><li>› It is used on surfaces exposed to friction in factories, shopping centers, warehouses, depots, portals, walking paths, car garages, schools, loading and unloading areas, hangars and mechanical workshops.</li></ul>
<b>Characteristics and Advantages</b>	<ul style="list-style-type: none"><li>› It is very easy to apply.</li><li>› It is sprayed as powder.</li><li>› It increases the resistance of concrete.</li><li>› It has water repellent properties.</li></ul>
<b>Application Details</b>	<ul style="list-style-type: none"><li>› Concrete laid before surface hardener should be at the least C25 concrete quality. It should be noted that laid concrete is good placed, vibrator is used and it has template. Before applying on the surface, consistency of concrete should be checked, and concrete should not be too wet or too dry.</li></ul>
<b>Surface Preparation</b>	
<b>Application</b>	<ul style="list-style-type: none"><li>› Since it is a product ready to use, it is applied with a mechanical machine or via splashing as powder without any mixture addition or mixing process. Splashing application is conducted in two phases after concrete achieves its initial resistance. Depending on the conditions during application, certainly remove bleed water. Make sure that it is laid by 3 kg/m<sup>2</sup> in the first phase and by 2 kg/m<sup>2</sup> in the second phase; do not conduct splashing process from a distance more than 1,5-2 meters. Mechanical surfacer (helicopter) should certainly be used to achieve a smooth surface at the end of each phase. it is normal that color differences occur during drying process. For color consistency, it should be noted that the product is laid equally. Correct timing and glazing techniques are important.</li><li>› Joint cutting; this process should start at the latest within 2-3 days, filling process may be completed with polyurethane mastic on polyethylene joint sealant rod.</li></ul>
<b>Warnings and Recommendations</b>	<ul style="list-style-type: none"><li>› Refrain from application below +5 C and over +30 C.</li><li>› Do not apply under direct sunlight.</li><li>› Refrain from using on surfaces exposed to prolonged sun exposure or frozen or with the risk of freezing in 24 hours.</li><li>› Avoid contact with eyes. Wash with plenty of water in case of contact. Consult to the nearest health center immediately.</li></ul>

## Technical Specifications

Color	Grey, Red, Green, Black
Appearance	Granule
Density	1.47 kg/l
Application Surface Temperature	+5 °C, +30 °C
Aggregate Harshness	7 Mosh Scale
Elasticity Modulus	29,000 N/mm <sup>2</sup>
Wear Resistance	6-7 gr/cm <sup>3</sup> (Boehme Method)
Impact Resistance (2000 cycle)	%40-50 Weight Loss
Duration before walking on it	1 Day Later
Compressive strength (28 Days)	≥70-75 N/mm <sup>2</sup>

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

## Consumption

› It is 4-5 Kg/m<sup>2</sup> despite depending on intended use and traffic load.

## Packing

› Craft bags of 25 kg

## Shelf Life

› 12 months under suitable conditions in unopened original packaging.

## Standard

› Conforms to TS EN 1504-2 standard.

