

# QIS YS 100 KORUNT

## KORUNT AGGREGATE SURFACE HARDENER



### DESCRIPTION

It is a wear-resistant, powder surface hardener consisting of a mixture of special type cement, high-quality corrugated aggregate and performance-enhancing chemical additives applied monolithically to fresh concrete surfaces. It provides wear, impact, dusting and abrasion resistance against light, medium and heavy loads on concrete surfaces.

### USAGE AREAS

- Indoors and outdoors,
- In factories, business centers, commercial warehouses,
- In garage, parking and basement floors,
- In mechanical workshops,
- In power plants,
- In shipyards and loading docks,
- In metro stations and underground passages,
- In parks and gardens, pedestrian paths and sidewalks,
- On helicopters and stair steps.

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### CHARACTERISTICS

- It is applied monolithically to fresh concrete.
- The abrasion strength of the concrete surface applied QIS 100 KORUNT increases 4-6 times compared to normal concrete.
- It is a part of the surface where it is applied, it does not wear out and does not spill.
- It is economical and long-lasting.
- It is ready to use. It saves significant time with its fast and easy application feature.
- It provides resistance to wear and impact on concrete surfaces and joint edges.
- It creates a surface that is resistant to weather conditions, freezing-thawing.
- The surface is easier to clean, its resistance to oils is higher than normal concrete.
- It is not oxidized.
- It provides a high impermeability compared to concrete.

### APPLICATION METHOD

#### Surface Preparation

- If QIS YS 100 KORUNT is to be applied on old concrete, C25 concrete with a thickness of at least 7.5 cm must be poured first. Use QIS QLATEX product to increase adherence and ensure adhesion between new concrete and old concrete.
- The concrete to be applied should be wet enough to absorb the moisture needed by QIS YS 100 KORUNT. The degree of wetness of the surface is extremely important. If the surface is excessively wet, QIS KORUNT concrete will be lost in its own thickness and will lose its effectiveness. If the surface is too dry, the product will not bond to the surface and the result will be negative.

#### Application

- Depending on the dimensions of the ground, 4 - 5 m wide anodes are placed as a full and empty one. Where necessary, mesh steel is placed in the anodes and the elevation process is completed. In order for the QIS YS 100 KORUNT to be optimally spread on the surface, the sprinkling process must be carried out from both sides of the anodes.
- The concrete is jiggled after casting, and it is ensured to be placed well with the application of vibrating jig.
- When the concrete receives its setting enough to leave a footprint of maximum 2-3 mm depth when it is mounted with a foot, 1/2 of the

QIS YS 100 KORUNT is spread equally on the ground by sprinkling by hand or by mechanical sprinkler.

- The material is expected to be moistened by absorbing the water of the concrete and to take a dark color. It is ensured that the color is equal on all sides of the floor. Integration is achieved by thoroughly feeding the trowel and material to the floor.
- Some material is sprinkled on the edges of the anode and dilatation joints under the most load as a strip of 8 cm and fed with trowel.
- The remaining 1/2 of the material is scattered on the ground, moistened and expected to take a dark color and fed to the ground with a trowel.
- When it is hard enough to walk on the surface, a steel trowel (helicopter) polish is applied.

**Curing:** QIS curing materials should be used for curing the concrete after application.

**Joint Cutting:** After pouring the concrete, joint cutting should be done within 2-3 days at the latest. After the joint filler is placed in the joint cavities, the remaining cavities should be filled with suitable products.

### Application Conditions

- It should not be applied at temperatures below +5°C and above +35°C.
- It should not be applied in areas that are frozen, have a risk of freezing within 24 hours or are directly exposed to the sun and wind.
- Excessive polishing should not be done, the product should not be thrown away during application to prevent the corrugated aggregate from separating from the cement.
- Before the QIS YS 100 KORUNT application, the surface should not be polished with a steel trowel or trowel.
- In correct applications, the ambient humidity is between 40 - 80% relative humidity. Flowering on the surface at low relative humidity, sweating on the surface at high relative humidity, slower curing and hardening may occur and the application may need to be prolonged.

### CONSUMPTION

For light and medium loads: 5 - 6 kg/ m<sup>2</sup> For heavy loads: 7 - 9 kg/ m<sup>2</sup>

### PACKAGING AND STORAGE

25 kg Kraft Bag

In its original packaging, when stored in ventilated, dry and protected environments at +10°C/+30°C, protected from sun, rain and frost, its shelf life is 1 year from the date of manufacture.

### SAFETY PRECAUTIONS

Gloves, protective clothing, masks/goggles should be used during mixing and application, and contact of the product with eyes, mouth and skin should be prevented. In case of contact with skin, it should be washed with plenty of water, and in case of contact with eyes and swallowing, a doctor should be consulted.

### TECHNICAL DATA

Appearance	Gray, red, green powder
Application Temperature	+5°C to +35°C
Aggregate Hardness	9 Mohs Scale
Wear Resistance to Rotating Wheel	≤ 1 cm <sup>3</sup> (TS EN 13892-5)
Compressive Strength	≥ 80 N/mm <sup>2</sup> 28 Days (TS EN 13892-2)
Bending Strength	≥ 10 N/mm <sup>2</sup> 28 Days (TS EN 13892-2)

The above values are given at +20°C and for 50% relative humidity.  
High temperatures shorten the time, low temperatures prolong the time.