



# PROAGREGA S 550

*Cement Based Silica Aggregate Surface  
Hardener*

## **PRODUCT DESCRIPTION:**

It is a cement based, silica reinforced, surface hardening mortar with high surface abrasion resistance, containing special chemical additives, ready to use, applied by sprinkling in powder form.

## **FEATURES:**

It has very high strength from fresh concrete surfaces.  
Surface abrasion resistance is high. Hardness is high.  
It delays surface dusting.  
It provides a smooth and homogeneous appearance. Its permeability is low.  
It has a natural decorative appearance.  
It is applied easily and practically.  
It is resistant to vehicle traffic and high load.

## **PRODUCT INFORMATION:**

Chemical Base Cement-Based  
Appearance Powder  
Color: Grey, Red, Green.

## **PERFORMANCE:**

(23°C, 50% RH)

Hollow Unit Volume Mass of Fresh Mortar  $1650 \pm 200$  kg/m<sup>3</sup> TS EN 1015-6  
Compressive Strength 28 days  $\geq 20$  N/mm<sup>3</sup> TS EN 196-1  
Flexural Strength 28 days  $\geq 4.5$  N/mm<sup>2</sup> TS EN 196-1  
Water Absorption: (after 30 minutes)  $\leq 5$  gr TS EN 12808  
Water Absorption: (After 240 minutes)  $\leq 10$  gr TS EN 12808

These values have been obtained as a result of laboratory tests carried out in our company and are valid for the performance of the finished applications at the end of the full drying period. Since the temperature and humidity values in the construction site environment and the application surfaces and areas will vary, the values may change.

## **USAGE AREAS:**

To create a decorative non-abrasive coating for industrial building floors  
For creating floors with high abrasion resistance in areas exposed to vehicle traffic  
It is suitable for use in all mineral-based flooring areas such as factories, warehouses, helipads, underground passages, parking lots, schools, shopping centers, metro stations.  
It is used in the reinforcement of carrier concrete and screeds.



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The surface hardener application is to increase the abrasion, dust and impact resistance of the selected concrete on the upper part of the concrete.

### **APPLICATION INSTRUCTIONS:**

Surface; It should be cured, dry and solid. It must be cleaned of residues such as oil, grease, dirt, paint, salt vomit that will prevent adhesion. The surface must be roughened. The bearing concrete of the area to be applied must be at least C25, C30 class. It should be 8-10 cm and contain iron reinforcement. The surface of the fresh concrete to be applied must be smoothed with a wooden trowel.

### **Application Equipment:**

Hand Mixer  
Trowel

When the concrete to be applied hardens enough to leave a footprint, the amount of surface hardener to be used is placed on the edge of the slabs in the working area.

### **If spreading by machine:**

All of PROAGREGA S is sprinkled on the concrete surface by sprinkling method. It is spread by machine.

### **Manual spread:**

Sprinkling is done gradually. First, the 2/3 part is spread. When the color darkens, it is either polished with a machine or it is integrated with the concrete by hand with the help of a spatula. After it is integrated with the concrete, the remaining 1/3 is spread. Attention is paid to a homogeneous image.

After the spreading material changes color by absorbing the water of the concrete, the rough finishing process is started at low speed. Integration of the surface hardener with the concrete is ensured. Before proceeding with the polishing process, the material spilled on the edges of the slabs should be cleaned. Otherwise, there may be a level difference between the two ano. If the concrete is dry enough to walk on after the rough finishing process is completed, the process is terminated when the desired brightness and smoothness is achieved by passing the fine finishing process at high speed.

Ready-to-use acrylic-based PROCURE material is poured on it. Thus, rapid water losses that may occur on the surface are prevented.



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## **LIMITATIONS:**

Please obey to the application instructions to obtain optimum quality. The application should be done between +5 C and +30 C. It should not be applied in hot, rainy and windy weather. It should not be applied on surfaces where there is a danger of frost. The product should be protected from rain, water, frost and adverse external factors until it cures (28 days).

## **CONSUMPTION:**

4-6 kg/m<sup>2</sup>

## **PACKAGING:**

In 25 kg kraft bag,  
(64 pieces per pallet, 1600 kg)

## **SHELF LIFE:**

It is 1 year from the date of production in its original packaging in damp and dry environments (temperature between +5 C and +25 C). The lid of the containers should be tightly closed when not in use. It should be kept away from moisture.

## **STORAGE CONDITIONS:**

It should be stored in its unopened original package, in a moisture-free, dry and cool (temperature between +5 C and +25 C) environment. It should not be left under direct sunlight.

## **SECURITY:**

Since it is cement based, do not breathe the dust, use a mask. Avoid contact with skin and eyes. Use protective gloves, goggles and clothing. In case of eye contact, rinse with plenty of water and seek medical advice immediately. Keep out of reach of children. In case of skin contact, wash with plenty of water and soap. Do not swallow. For detailed information and recommendations, please refer to the Safety Data Sheet.

*DEKOSTAR San.ve Tic.Ltd. Şti. is not responsible for any application errors that may occur if the product is used for purposes other than its intended use or if the above-mentioned application conditions and recommendations are not followed. Dekostar reserves the right to change its products. Users should consider the latest edition of the Technical Data Sheet of the relevant product.*