



## HARD C 701

### Hardening product that cement based, quartz aggregate

#### DESCRIPTION:

It is a surface hardening product that cement based, quartz aggregate, high surface abrasion resistance ,special chemical additive, ready-to use, applied in a powder form by sprinkling,

#### ADVANTAGES:

It has much higher strength than concrete surfaces.

The hardness grade is high.

Retarding the surface dusting.

Provides a smooth and homogeny appearance.

Low permeability.

Has natural decorative appearance.

Applied easy and practical.

It is durable to vehicle traffics,

Easy and fast prepare.

#### USAGE AREAS:

Indoors and outdoors,

To create decorative anti-corrosive coating for industrial building floors,

To create a ground with high wear resistance in areas exposed to vehicle traffic,

Factory, warehouse, heliport, underground passages,

In all mineral based floor covering areas such as parking lot, school, shopping center, metro stations,

It is used to strengthen the surfaces of bearing concrete and screeds.

The surface hardener application is to increase the abrasion, dusting and impact strength of the selected concrete on the concrete surface.

#### TECHNICAL SPESIFICATION :

( 23 °C Temperatur and 50 % for relative humidity)

**Dry Bulk Density : 1650 kg/m<sup>3</sup>**

**Compressive Strenght 28 days: ≥ 20 N/mm<sup>2</sup>**

**Bending Strenght 28 days : ≥ 4,5 N/mm<sup>2</sup>**

**Water Absorb : ≤ 10 gr**

**Color : Grey,red**

**Application Temperature : +5°C +35°C**

\*\*\*These values were obtained as a result of laboratory tests, just contain finished applications according to drying time performance. Due to differences in temperature and humidity values in the construction site, the values may change.



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#### **APPLICATION METHOD:**

##### **Surface Preparation:**

The concrete to be cast must be at least C25 quality.

All precautions should be taken to prevent concrete from cracking (Mesh steel, Fiber fiber additive, steel wire additive etc.).

Concrete must be at least 7 cm thick.

Pay attention to water cement ratio should not be over 0.45

##### **Preparation Of The Mixture:**

The product is ready for use, after opening the bag, transfer it to a clean bucket.

Then the application starts.

##### **Application:**

Before starting HARD-C - 701, the concrete surface should be smoothened with a wooden trowel or gauge.

Since the timing may vary according to weather conditions, the application can be done when 0.5 - 1.5 cm footprint remains after hardening.

Concrete should lose its water, but it should not dry out completely.

Apply 5-10 cm wide product in order to increase the strength at the main joints.

2/3 of the product is applied by sprinkling on the surface to cover the whole surface.

The product should not be sprinkled from a far distance. In these and similar applications, the product may separate into particles and the manufacturing of the desired quality may not be possible.

When the product absorbs the water sufficiently (color changes), it is smoothed by trowel or wooden trowel.

The remaining 1/3 of the product should be sprinkled on the surface as in the first application and the application should be repeated.

After the tray polishing, start doing slicker in order to have glossy surface.

If the joint is going to be cut, the concrete should be expected to reach sufficient hardness.

After the application, the surface should be covered with DAYMAN AC-CURE-710 or DAYMAN P-CURE-711 in order to prevent the concrete from a shrinkage crack because of not discharged water and to arrive suitable hardness.

#### **ISSUES TO BE CONSIDERED:**

The surface temperature during application should be between +5 °C and +35 °C,

Do not apply on surfaces that are at risk of frost,



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The product must be protected from rain, water, frost and the other external factors until curing.

The timing of the finishing process is very important for the quality of the surface treatment.

Do not apply early or too late.

Protect from water contact and pedestrian traffic for 24 hours aft application.

#### **CLEANING OF INSTRUMENTS:**

DAYMAN HARD-C - 701 - should be cleaned by water when it wet.

DAYMAN HARD-C - 701 - after become dry should be cleaned by the mechanical ways.

#### **CONSUME:**

Various 4,00 – 6,00 kg/ dm<sup>3</sup>

#### **PACKING:**

Powder 25, 00 kg. Craft bag

Pallet 120x80

Qty on pallet 64

#### **COLOR:**

Grey, Red

#### **SHELF LIFE:**

1 year from the production date under proper storage conditions.

Opened packages should be kept tightly closed.

Wear suitable protective clothing, protective gloves, goggles and mask during application.

#### **SAFETY RECOMMENDATIONS:**

As it cement based, do not breath and do not touch with skin and eyes,

Due to the irritating effects of uncured materials, skin and eyes should not be contacted, in case of contact with wash plenty of water and soap, if swallowed seek medical attention immediately.

Food and beverage materials should not be kept in the application area and should not be eaten.

Store out of reach of children.

This product packaging must be disposed of in accordance with applicable laws.

For more information please check the Material Safety Data Sheet.



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#### **LIMITATIONS OF LIABILITY:**

The information in this technical data sheet is given according to technical information, experience and test result.

As GENERALTÜRK A.Ş. cannot control the usage of the product that used under which kind of conditions, it does not accept any responsibility for the application result and does not guarantee it.

The product suitability for the product user should be tested and decided accordingly.

All products should be considered in the advice of those technical knowledge and equipment.

GENERAL TURK A.Ş can not accept any responsibility that occurs because of misuse, it only responsible for the written suggestions that shows the products where and how use.

GENERALTÜRK A.Ş. It may change the properties of its products without announcement.

The technical data sheet is valid until the next time it is printed and all previous technical data sheets invalidate the description / January 2020