



# CEMENT PRODOR SK

## DESCRIPTION

CEMENT PRODOR SK is two-component silicate cement consisting of CEMENT PRODOR K Solution and CEMENT PRODOR S Powder and is used for setting acid proof tiles / bricks. CEMENT PRODOR SK conforms to IS 4832 Part I and ASTM C 466-86

## USE

CEMENT PRODOR SK is extensively used as bedding cement in various areas like floors, drains, chimneys, tank farms, foundations, effluent treatment tanks and a host of other places.

This cement is used in different industries like Steel, Dyestuff, Thermal Power plants, Fertilizer plants, Petrochemicals etc,...

## PHYSICAL DATA

Mixing Ratio, pbw Powder : Solution	3 : 1
Colour	Off white
Density, Kg / m <sup>3</sup>	2150 – 2300
Working time at 27±2°C, minutes, min	20
Setting time at 27±2°C, minutes, max	180

## PROPERTIES

Property	After 3 days	After 7 days
Flexural Strength, Kg/cm <sup>2</sup> , min	30	45
Tensile Strength, Kg/cm <sup>2</sup> , min	20	20
Compressive Strength, Kg/cm <sup>2</sup> , min	120	150
Bond Strength with acid proof bricks, Kg/cm <sup>2</sup> , min	-	5

Property	After 3 days	After 7 days
Toluene Absorption, in %, max	-	18
Temperature resistance, °C, max	-	850

## APPLICATION INSTRUCTIONS

Acid Proof tile/brick lining using silicate cement as bedding is done over a suitable membrane.

### Mixing:

A required quantity of “K” solution is taken in a clean vessel and proportionate quantity of “S” powder added and mixed thoroughly, till a lump free mortar is obtained. The mix ratio can be slightly adjusted (+/- 10%) to suit the site conditions. Only sufficient quantities of CEMENT PRODOR SK mortar, which can be consumed within the specified workable time, should be mixed.

### Application:

The prepared mortar is applied to the back and on the sides of acid resistance brick / tile and pressed firmly on the surface, so that the bedding is uniform.

In case pointing is to be done using resin cement, the joint is raked out to the required depth, after the cement sets partially.

The exposed joints are cleaned with dilute Hydrochloric acid solution (1 part of acid + 2 parts of water) to ensure proper setting of the cement.

### Precaution:

1. Tanks / vessels lined with CEMENT PRODOR SK cement must be first filled with dilute acids and not with water alone.

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- Water should not be added to the mortar to adjust workability.
- When the temperature drops below 15°C, silicate solution tends to crystallize; so the working / setting time gets prolonged. Hence, it is not recommended to mix silicate mortar below 15°C.
- In case if the powder is wet, it may be dried under shade. For test purpose, small quantity of powder is mixed with the solution and if the mortar sets within the specified time, then the powder can be used.

## CLEANING

Immediately after application, clean the tools, tackles and the mixing container using water

## CHEMICAL RESISTANCE

CEMENT PRODOR SK is resistance to:

- All acids including oxidizing acids, except Hydrofluoric acid.
- Acidic, neutral salt solutions and solvents.
- 10% acidic acid and 70% Sulphuric acid

It is not resistance to alkalis and water spillages.

For specific chemical resistance details, please contact our technical services department.

## PACKING

CEMENT PRODOR S Powder – 50 Kg.  
CEMENT PRODOR K Solution – 50, 250 Kg

## STORAGE & SHELF LIFE:

CEMENT PRODOR SK as supplied shall be stored in a cool and dry place away from sunlight, moisture and high humidity and have a shelf life of 12 Months in the original packing, at ambient temperature.

## HEALTH & SAFETY:

While handling powder it is advisable to wear mouth mask as a protection. Contact of solution with skin and eyes should be avoided. Any splashes of Silicate solution should be cleaned with plenty of water immediately. If severe irritation is present, physician should be consulted.

## ADDITIONAL INFORMATION

CUMI - PRODORITE also supplies other acid, alkali and chemical resistant brick / tile linings, Polymer concrete products, Construction chemicals like concrete repair and rehabilitation products including protective coatings, epoxy and polyurethane coatings and floor toppings, Chemical storage tanks, vessels, scrubbers, pipes and fittings, other custom-built items in FRP, PP-FRP, PVC-FRP & PVDF-FRP, FRP Gratings, etc.

## WARRANTY

Whilst Carborundum Universal Ltd, strives to ensure that any advice, information or recommendation given are appropriate and correct, it cannot accept any liability directly or indirectly arising out of the products, since the method and place of application of the products are beyond its control. Its guarantee is therefore limited to the quality of materials delivered.

## CARBORUNDUM UNIVERSAL LIMITED

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