



COROCEM

DESCRIPTION

COROCEM is an unsaturated Polyester resin based acid-proof cements used for both bed and joint and pointing of acid proof tiles / bricks. They combine the special advantage of rapid setting and hardening even under cold conditions, good mechanical strength and adhesion to tiles / bricks and stoneware.

COROCEM conforms to IS 4832 Part II and ASTM C 395-80 and carries ISI marking.

USE

COROCEM cements is used without any membrane for bonding of acid-resisting bricks, tiles, white vitreous tiles, glazed tiles in chemical resisting linings as in reaction tanks, floors, drains, towers etc. where greatest possible adhesion is required.

It is used in different industries like Dyestuff, Rayon, Steel, Metal finishing, DM Water Plants, Paper and Pulp etc

PHYSICAL DATA

Mixing Ratio,	Powder	300 pbw
	Syrup	100 pbw
	Catalyst	1 – 2 pbv
	Accelerator	1 – 2 pbv
Colour		Off white
Density, Kg / m ³		1900 – 2000
Working time at 27±2 ⁰ C, minutes, min		20
Setting time at 27±2 ⁰ C, minutes, max		120

PROPERTIES

Property	After 7 days
Flexural Strength, Kg/cm ² , min	150
Tensile Strength, Kg/cm ² ,min	100

Property	After 7 days
Compressive Strength, Kg/cm ² ,min	700
Bond Strength with acid proof bricks, Kg/cm ² ,min	12
Water Absorption, in %, max	1
Temperature resistance, ⁰ C, max	80 - 90

APPLICATION INSTRUCTIONS

On the bare substrate, COROCEM primer has to be applied before commencement of tile/brick lining..

Mixing:

For the primer, the same mixing ratio without the powder component is used and the mixed material is to be applied by brush. On the tacky primed coat tiling may be commenced.

Only a small quantity of syrup is taken in a clean vessel. Accelerator, Catalyst and powder are added in that order and mixed thoroughly after each addition to obtain a lump free mortar. Order for addition should not be changed.

Mixing proportion of catalyst, accelerator can be varied from 1-2% by volume depending upon the climatic condition. Powder ratio can also be slightly adjusted (±10%) to suit the site condition.

Application:

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

After curing for a period of 7 days at an ambient temperature the lining can be put into operation

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Precaution:

- Accelerator, and Catalyst should not come into direct contact with each other since this may form an explosive mix.
- When the temperature falls below 15 Deg. C COROCEM syrups tend to crystallize. Before mixing with other components, the syrup may be warmed using a hot water bath.

Note: In case the powder becomes wet, it is dried under shade and used.

CLEANING

All tools and equipments should be cleaned with solvents like acetone immediately after use

CHEMICAL RESISTANCE

COROCEM is resistant to most acids of dilute and moderate concentrations except oxidising acids. COROCEM is resistant to most fats, oils and greases. It is not resistant to alkalies and solvents.

For specific chemical resistance, please contact our Tech. Service Dept.

PACKING

Powder	40 Kg in HDPE bag.
Syrup	40 Kg in drum.
Accelerator	Required qty in Drum.
Catalyst	Required qty in PE container

STORAGE & SHELF LIFE:

The shelf life of the syrup is very short. Hence it is essential that the syrup material is kept under cold storage condition (below 20°C). The other materials can be stored at room temperature. The

Accelerator, and Catalyst should be stored separately and kept at a distance from each other. Direct contact between catalyst and accelerator may cause explosion. Avoid contact with water and heat. Syrup has a shelf life of 6 weeks at ambient temperature and 12 weeks at 20°C and all other components have 1-year shelf life at ambient temperature.

HEALTH & SAFETY:

Keep all components in closed, labelled container in a cool, covered and dry ventilated area. Avoid contact with skin. It is advisable to use gloves. In case of contact with skin, it is washed thoroughly with soap and water. If irritation persists, seek medical aid. In case of contact with eyes, wash with large amount of water and consult a doctor.

ADDITIONAL INFORMATION

CUMI-PRODORITE division 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

PRODORITE DIVISION

Specialists in Corrosion Management since 1962

57 & 58, Thattankulam Road, Madhavaram, Chennai – 600 060.

Phone: 25530953 – 56 Fax: 044-25530374, e-mail: prodorite@vsnl.com



CHENNAI
Ph.: 044 25530953-6
Fax: 044 25530374

DELHI
011-25726908
011-25860132

MUMBAI
022-22661018
022-22620607

KOLKATA
033-30523162
033-30523162

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