



DESCRIPTION

CUMIFURAN and CUMIFURAN FN are a new furan resin based chemical resistant cements. CUMIFURAN is quartz filled and CUMIFURAN FN is carbon filled. Both are two-component system consisting of a Syrup and a Powder. The advantages of these products are their versatility in terms of strength, chemical resistance and shelf life. Additionally they have lower odour, free of any flash setting / lower exotherm and increased shelf life, upto 12 months at ambient temperature.

CUMIFURAN AND CUMIFURAN FN meets the requirement of IS 4832 Part II and ASTM-C-395.

USE

Chemical resistant brick / tile linings based on CUMIFURAN and CUMIFURAN FN are recommended for severe corrosive conditions as in reaction vessels, storage tanks, neutralisation pits, drains, floors and other areas.

CUMIFURAN and CUMIFURAN FN are used in different industries like Steel, Dyestuff, Metal finishing, Thermal power plants, Petrochemicals, Pharma, Fertilisers, Food processing, Beverages, Breweries, Dairies etc..

For severe corrosive conditions CUMIFURAN AND CUMIFURAN FN are used for bedding and jointing of tile/bricks and for less severe conditions, it is used as a pointing material along with silicate cement as the bedding and jointing material.

PHYSICAL DATA

Property	CUMIFURAN	CUMIFURAN FN
Mixing Ratio, pbw Powder : Syrup	3.5 : 1	2.2 : 1
Colour	Black	Black
Density, g / cm ³	1.85 - 2.00	1.80 - 1.95
Working time at 27±2°C, minutes, min.	20	20
Setting time at 27±2°C, minutes, max.	360	300

PROPERTIES

Property	CUMIFURAN After 7 days	CUMIFURAN FN After 7 days
Flexural Strength, Kg/cm ² , min.	80	80
Tensile Strength, Kg/cm ² , min.	50	50
Compressive Strength, Kg/cm ² , min.	380	480
Bond strength with AR bricks, Kg/cm ² , min.	10	10
Water Absorption, in %, max.	1.0	1.0
Temperature resistance, °C, max.	180	180

APPLICATION INSTRUCTIONS

On the bare substrate these CUMIFURAN mortars should not be applied. The substrate shall be clean and dry. It is recommended that a suitable membrane is provided on the substrate and over this acid proof brick / tile lining is done using CUMIFURAN mortars.

Mixing

For preparing mortar, the Syrup is taken in a clean vessel and proportionate quantity of respective Powder is added and mixed thoroughly till a lump free, butter like consistency mortar is obtained.

Mixing ratio of powder can be slightly changed (±10%) to suit the site conditions.

Since the working time of the mortar is relatively short, only small quantity of mortar which can be used within the workable time is mixed.

APPLICATION

The prepared mortar is placed on the back and sides of Acid proof brick / tile and pressed firmly over the membrane so that the bedding is uniform.

CUMIFURAN & CUMIFURAN FN

In the case of pointing, the mortar is filled to the depth up to which the jointing material is raked out. The surplus material is removed from the joint carefully without smearing onto the tile surface.

Note : When CUMIFURAN AND CUMIFURAN FN are used for pointing tiles bedded with CEMENT PRODOR SK mortar, the joints should be previously cured with dilute hydrochloric acid, prepared by mixing of 1 volume of commercial hydrochloric acid with 2 volumes of water and dried.

CHEMICAL RESISTANCE

CUMIFURAN AND CUMIFURAN FN, at room temperature, has resistance to a wider range of acids including organic acids, alkalis, solvents including halogenated types, and salt solutions except those of the oxidising type. It is not recommended for service to oxidising chemicals like chromic acid, nitric acid, peroxides etc. For details of chemical resistance to specific conditions, please contact our Marketing Services Department.

PACKING

CUMIFURAN SYRUP..... : 40 Kg drum.
CUMIFURAN Powder..... : 40 Kg bag.
CUMIFURAN FN Powder..... : 40 Kg bag.

STORAGE & SHELF LIFE:

CUMIFURAN Syrup and CUMIFURAN / CUMIFURAN FN Powders should be kept in a cool and dry place in tightly closed condition, away from moisture, heat and direct sunlight. For safety reasons, always ensure the Syrup and Powder are stored away from each other.

All the three materials have a shelf life of minimum of 12 months at the recommended storage conditions.

In case the ambient temperature is more than 30-35°C, the shelf life of the above materials will get reduced accordingly.

Note : If Powder is wet or the Shelf Life of both materials exceed the limit given, mix small quantity of Syrup and Powder for test purpose, and if the mix ratio, working and setting times are of normal behaviour / within the specified value, then the materials are said to be in usable condition.

HEALTH & SAFETY:

It is important that the workplace be provided with adequate ventilation. Contact with skin should be avoided, since it causes irritation, accompanied by itching and inflammation. Use of hand gloves, mouth mask and goggles are recommended while using CUMIFURAN AND CUMIFURAN FN mortars. In case of contact with skin, wash with soap water followed by plenty of clean water. If syrup splashes into the eye, get immediate medical attention, after cleaning with plenty of water.

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.



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