



## Anti Corrosi EPX Cements for Surface Protection

# CORO EPX

EPOXY RESIN CEMENT  
TECHNICAL INFORMATION SHEET

### For Acid / Alkali Resistant Protective lining of Reactors, ETP Tanks, Floors, Drains, etc.

#### INTRODUCTION :

CORO EPX is a Epoxy Resin Cement and is supplied as three component system which sets by chemical reaction to a hard strong mass, which can, in general, withstand temperatures upto 80°C. It has very low absorption and has very high chemical & physical properties. It is recommended for protection against acids, alkalies, salts, solvents, greases, detergents. However it is not recommended against strong mineral & oxidizing acids.

#### AREA OF APPLICATION

CORO EPX cement is used for laying and jointing of Acid resistant tiles and bricks in food & pharmaceuticals industries, dairies, breweries, bottling plants etc. and can withstand temperatures up to 90°C. It can also be used for screeding and patch repairs of concrete floors and sealing of cracks

#### PRETREATMENT OF SURFACE

The concrete / metal surface should be thoroughly cleaned to ward off rust and other foreign particles either by sand blasting or conventional methods of cleaning. The cleaned surface should be applied with a protective monolithic membrane.

The selection of the protective membrane depends upon the temperature and chemical condition. The cement should not, under any conditions, be directly applied on to the metal or concrete surface.

#### MIXING RATIO :

CORO EPX is supplied as three components system, which is to be mixed in the following ratio in Parts by weight

Resin : Hardener : Filler  
1 : 0.5 : 3.5

The Pot life of the prepared compound is approx. 20 minutes at 25°C.

#### PHYSICAL CHARACTERISTICS :

Mixing Ratio (PBW)	.....	1: 0.5: 3.5
Working Time, Min	.....	15-20 Minutes.
Flexural strength , Min., Kg/cm <sup>2</sup> (at 7 days)	.....	150
Compressive Strength Min. Kg/cm <sup>2</sup> (at 7 days)	.....	500
Bond Strength , Min., Kg/cm <sup>2</sup> (at 7 days)	.....	12
Absorption Max. (%)	.....	1.0

#### APPLICATION :

The surfaces being lined and also the Bricks/ Tiles shall be dry and clean devoid of dirt, oil and other foreign particles. Apply CORO EPX cement on the back and adjacent side of the tile / brick and spread it evenly with a trowel. The bricks shall be laid in sliding motion and tamp the bricks or tiles so that mortar comes up in the joints. This ensures that the mortar is thoroughly filled in the joints without any air pockets. Scrape off any surplus material immediately with a trowel.

When bricks, tiles or stones are laid with Corocem 'K' Potassium Silicate cement and only the joints are required to be filled in with CORO EPX cement, the joints should be raked out to the desired depth and should be cleaned carefully free from dust or loose particles by means of a brush or compressed air blast prior to filling with the compound

#### Setting & Hardening :

The rate of setting and hardening is markedly influenced by the prevailing temperature. The mixed compound begins to set in about two hours and is set after about 8-10 hours at a temperature of about 25°C . The completed job should not be put into service for at least 7 days from initial setting of the compound .

#### SAFETY PRECAUTIONS DURING USE

It is recommended that Protective hand gloves and goggles should be worn while working with the cement. If it comes in contact, with the skin or eyes, it should be washed with plenty of water and consult a doctor if necessary.

#### SHELF LIFE & STORAGE

CORO EPX Resin & Hardner has a shelf life of 12 months when stored in cool, dry place. Care should be taken that the powder and resins should be tightly packed and stored in a dry place not exposed to sunlight. No moisture or water should come in contact with the material.

#### PACKING

CORO EPX Resin & Hargener & is supplied in containers of 200 & 100 kg repectively or as required by customer. Powder is supplied in 50 Kgs HDPE Bags.

**Note :** All recommendations for use of our products, whether given by us in writing, verbally or to be implied from the results of tests carried out by us are based on the current state of our knowledge. Although the information contained in this sheet is accurate to the best of our knowledge, no liability can be accepted in respect of such information and no warranty or conditions are intended in respect of the product described as the conditions of applications are beyond our control.

## PSK Corofrac Linings Pvt. Ltd.

106, Udyog Kshetra, Mulund Goregaon Link Road, Mulund (West), Mumbai – 400 080. India.

Tel No.: +91-22-25690997 / 25651695 Fax No.: +91-22- 25694121. E-mail: [psk@psklinings.com](mailto:psk@psklinings.com)

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Kg/cm <sup>2</sup> (at 7 days)		
Bond Strength , Min.,	.....	12
Kg/cm <sup>2</sup> (at 7 days)		
Absorption Max.	.....	1.5
Percentage by weight		

### CHEMICAL RESISTANCE CHART

#### CORO EPX EPOXY CEMENT

#### ACIDS

HYDROCHLORIC ACID(CONC)	R
SULPHURIC ACID (10%)	R
SULPHURIC ACID (50%)	R
SULPHURIC ACID (CONC)	N
NITRIC ACID (10%)	LR
NITRIC ACID (CONC)	N
OXALIC ACID	R
ACETIC ACID (10%)	R
CHROMIC ACID (10%)	N
LACTIC ACID	R
PHOSPHORIC ACID(10%)	R
HYDROFLUORIC ACID (10%)	N (See Note)
HYDROFLUORIC ACID (20%)	N (See Note)

Note : Use Carbon filled or Graphite filled fillers for Hydrofluoric Acid

#### ALKALIES

SODIUM CARBONATE	R
SODIUM HYDROXIDE (10%)	R
SODIUM HYDROXIDE (40%)	R
SODIUM HYPOCHLORITE	R
(BLEACH-18%)	
CALCIUM HYDROXIDE(Conc)	R

#### SOLVENTS

DICHLOROETHYLENE (E.D.C)	NR
BENZENE	LR (CONSULT)
TOULENE	LR (CONSULT)
ACETONE	NR
ETHYL ALCOHOL	R

#### KEYS:

R = RESISTANT  
NR = NOT RESISTANT

LR = LIMITED RESISTANCE, IN CERTAIN CASES, CONSULT YOUR SUPPLIER.

**N.B.:** The information given in this leaflet is based on results gained from experience and test. However, all recommendations and suggestions are made without any guarantee as the conditions of use are beyond our control.

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