

## TECHNICAL DATA SHEET

### EPOCOAT FCH

***Self-Leveling Epoxy Floor Coating with Excellent Resistance to Oil, Solvents, Alkalis and Most Acids***

#### PRODUCT DESCRIPTION:

**EPOCOAT FCH** is a two-component epoxy floor coating specially formulated from high-grade resins and curing agents for flooring applications. It is lead-free and non-toxic when fully cured. It hardens to an abrasive-resistant coating with high abrasive strength on properly prepared substrates such as concrete and steel. **EPOCOAT FCH** is water-impermeable and has excellent resistance to oil, solvents, alkalis, and most dilute acids.

#### CUSTOMER BENEFITS:

- Durable, hard-wearing surface with excellent abrasion resistance and adhesion to substrates.
- Easier to clean resulting in low maintenance costs
- Attractive as available in a range of colors to improve the working environment
- Designed for a general maintenance coating where gloss and color retention are desired

#### RECOMMENDED FOR:

- Ideal for floor topping of new and existing flooring of food processing plants, chemicals and pharmaceutical factories, and sugar and oil refineries.
- Recommended for installation of anti-skid coatings both indoors and outdoors.
- Production areas
- Patching of deteriorated flooring
- Warehouses
- Gasoline station and others

#### INSTRUCTIONS FOR USE

##### APPLICATION

Surfaces must be dry and free from oil, grease, and other contaminants. It should be primed with a compatible primer i.e., **EPOCOAT MB**. It can be applied by brush, roller, and conventional spray or by airless spray equipment.

To paint over a previous coat, it is necessary to sand it lightly to provide a good toehold for the next coat. For steel, it is recommended that steel surfaces be sandblasted.

#### MIXING

Stir thoroughly the base component prior to the addition of the catalyst. Prepare enough materials that can be applied within 35 – 45 minutes. The entire content of the catalyst (Part B) should be poured into the base (Part A) container and mixed thoroughly. The use of a slow-speed drill fitted with a paddle is desirable.

Use a spreader or gauge rake to apply **EPOCOAT FCH**. Then, use a spike roller to eliminate and burst bubbles, pinholes, and other pockets of gas that may be present on the surface.

For conventional spraying, **EPOXY REDUCER** may be added to the mixture. Allow 15 minutes of induction time before application.

#### PHYSICAL PROPERTIES

##### UNCURED STATE

Pot life	: 35 – 45 minutes
Tack-free time	: 1 hour
Curing time	: 24 hrs under normal condition
	: 7 days with heavy load & acid resistance property
Solid Content	: 100%
Mix ratio	: 2 parts resin base
	1 part catalyst
Chemical resistance	: Excellent to oil, solvents, alkalis and dilute acids

##### CURED STATE

Test	Results	Standard
Compressive strength	10,259 psi, 7 days	ASTM D695-15
Abrasion resistance	18 mg loss at 2,000 cycles, 60 rpm	ASTM D4060-10
Tensile strength	6,387 psi, 7 days	ASTM D638-14
Pull-off Tensile strength	526 psi, 7 days	ASTM D4541-17
Impact resistance	24 inches height at 1 kg weight	ASTM D6905-03 (2012)
Slip resistance:		ANSI/NFSI BIOI.I-2022
Wet	0.52 cof	
Dry	0.38 cof	
Shore hardness	64.40 Shore D	ASTM D2240

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#### COVERAGE

Theoretical coverage for 3.8kg/set:

Self-leveling : 6-7 sqm at 500-micron dft  
3-3.5 sqm at 1000-micron dft

**Note:** *The coverage rates provided above are for guidance purposes only. Actual usage may vary depending on the specific substrate conditions and application methods.*

#### PACKAGING

EPOCOAT FCH is available in a 3.8 kg/set.

#### STORAGE AND HANDLING

EPOCOAT FCH has a shelf life of 36 months if stored in a dry cool place unopened.

#### PRECAUTIONS

##### **HEALTH AND SAFETY**

Keep containers tightly closed. Work areas must be adequately ventilated avoid prolonged breathing of its vapors and wear gloves to avoid contact with skin.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Refer to the latest Safety Data Sheet (SDS) for comprehensive safety information on the proper handling of this product.

##### **WARRANTY AND DISCLAIMERS**

*The information provided in this technical data sheet is based on our best knowledge and testing methods. Any product use outside of specifications or improper storage or installation voids any warranty. Users are encouraged to conduct their own testing to assess product suitability. Always consult the product's safety data sheet (SDS) for safety guidelines and follow recommended precautions. We reserve the right to update this data sheet without notice, and users should ensure they have the latest information.*