

# FloArm Coat EFG

(Formerly known as MYK Coat EFG)

Food Grade Epoxy Coating



## TECHNICAL DATA SHEET

### Product Description

FloArm Coat EFG is a two-component solvent free epoxy resin system, comprising pigmented base and a hardener, specifically formulated to protect concrete and steel. On mixing of the two components, it yields a high build, chemical resistant protective coating, which cures to a semi glossy, ultra dense surface that is easily cleaned, hygienic and safe for contact with foodstuff and potable water. (Approved by CFTRI)

### Uses

FloArm Coat EFG is recommended as a protective coating for the inside surfaces of tanks, sumps and walls and as a pore free surface sealer resistant to the growth of bacteria.

Applications include:

- Coating drink water reservoirs
- Chemicals storage tanks.
- Dairies & grain silos, Fruit Juice, Holding Tanks.
- Pulp and paper plants.
- Meat processing, food industries & breweries.
- Clean rooms in pharmaceutical facilities
- As a protective coating in oil refineries, paper mills, Power stations, garages, hospitals, hangars, etc.

### Features and Benefits

- Non-toxic & non-tainting: safe for drinking water
- Impermeable - vapour barrier for low RH areas
- High chemical resistance
- Solvent free - Virtually no odor, Zero VOC
- High build coating – tough & durable
- Hard surface - Easy to clean
- Resistant to mould growth & abrasion
- Approved by CFTRI

### Application Methodology

#### Step no.1: Surface Preparation

It is most important to ensure that thorough surface preparation is undertaken prior to application of the FloArm Coat EFG coating .

Temperature Requirements

- Substrate temperatures: 15°C – 35°C
- Material temperatures: 15°C – 30°C

Very low or very hot temperatures will make application more difficult and careful consideration should be given to storage of materials. In the cold weather conditions, precondition materials by keeping it in a heated room. In hot weather conditions, some form of air-conditioned storage is required. Pre-conditioned materials at 20-25°C will reduce the possibilities of flash/slow setting and other defects.

#### Concrete:

Ensure concrete is at least 28 days old and sound. Oil, grease, mould release agent, curing membrane, and such Other contaminants must be removed by mild detergent and water, and by thoroughly scrubbing with a soft brush. If the wall surface is damp or water is seeping out, it is necessary to stop the leakage before coating. For advice on the appropriate method for the site situation, contact MYK arment. It is important to note that the final finish obtained is entirely dependent on the surface finish of the substrate.

Where a hygienic surface is critical such as in potable water tanks and food industries even out all unevenness such as blowholes, pin holes and other surface defects with Epoxy putty before application of coating.

#### Steel:

Remove all previous surface treatments and corrosion products by sand/shot blasting to SA 2½ finish or to bright metal finish. Do not allow long time gap between the surface preparation and the coating to prevent re oxidizing of metal before application of FloArm Coat EFG.

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### Step no.2: Mixing

FloArm Coat EFG is supplied in two pre-weighed components, Base and Hardener. Properly stir each component separately before mixing together to ensure uniform consistency. FloArm Coat EFG is supplied in pre proportioned kits for complete mixing. Combine Hardener and Base component in a suitably sized container. Ensure to scrap the sides of the containers to ensure a complete reaction. Mix properly for 3 minutes with a slow-speed drill and wing style mixing paddle at 300-400 rpm until a homogeneous colour is achieved. Keep the paddle below the surface to avoid entrapping air. Do not mix by hand.

### Step no.3: Application:

FloArm Coat EFG can be applied using short nap roller, shorthaired brushes or by airless spray. Apply in two coats preferably in contrasting colors, each at a W.F.T. of 180 to 250 microns, the second coat applied after the first coat has dried (12-18 hours at 30°C)

### Airless spray:

For application by airless spray, use a pump with 45:1 or higher ratio, minimum 9 mm dia hoses and a nozzle tip of size 0.48 mm to 0.58 mm.

### Specification Clause:

The non-toxic, high build epoxy coating shall be FloArm Coat EFG, solvent-less, taint free potable grade, protective coating. The product shall exhibit excellent bond strength with the substrate at least exceeding 1.5 MPa, when tested as per ASTM D4541. The product shall be formulated to have high build thickness exceeding 200 microns per coat on average and shall be applied to achieve overall thickness of 400 microns in two coats. The product must be approved by reputed institute such as CFTRI for use in contact with potable water.



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### Technical Data

Colour	Cream
Mixed density:	1.40 kg/litre at 25°C
Typical properties Volume Solids:	100%
Pot life:	30 Minutes at 25°C 20 Minutes at 30°C
Mixing Ratio, by Weight:	100(Base):38(Hardener)
Touch dry:	4 Hours at 30°C
Re coatable:	12 -18 Hours at 30°C
Open to foot traffic:	24 Hours at 30°C
Final cure:	7 Days at 30°C
Adhesive bond strength to concrete, (ASTM D 4541):	>1.5 MPa (concrete failure)
DFT, in two coats:	400 - 500 microns
*CFTRI approval for use with potable water & other food products	

### Chemical Resistance

FloArm Coat EFG is resistant to intermittent spillages of the following typically encountered chemicals:

- Formaldehyde, 40% solution
- Sulphuric Acid, 30% solution
- Hydrochloric Acid 5% solution
- Lactic Acid, 50% solution
- Nitric Acid, 10% solution
- Sodium Hydroxide, 30% solution
- Diesel oil
- Wine
- Sea and brackish water
- Aviation hydraulic fuels (Skydrol)
- Vegetable oils

### Note:

Higher concentration of mineral acids may cause matting of the surface and colour changes.

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#### Coverage

Each 4 kg composite pack yields 2.9 Liter on mixing and is sufficient to coat approximately 7.25 m<sup>2</sup> in 2 coats of 200microns each, on a fair faced concrete surface.

Actual coverage depends on the numbers of coats, surface profile, loss and wastage.

#### Packing

FloArm Coat EFG is supplied in 4 kg packs consisting of Base and Hardener.

#### Storage & Shelf Life

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Shelf life is 12 months.

#### Precautions

FloArm Coat EFG should be applied with gloves and care should be taken to see that it does not fall on skin or eyes. Splashes on to eyes have to be immediately washed with plenty of clean water and medical advice has to be taken.

#### Product Categories Available



#### Legal Note

The information, and, in particular, the recommendations relating to the application and end-use of MYK Arment products, are given in good faith based on MYK Arment current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with MYK Arment's recommendations. In practice, the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchant ability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application & purpose. MYK Arment reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.