

FloArm Coat EC-ME

(Formerly known as MYK INDUFLOOR EC (ME))

High build solvent free epoxy resin floor coating



TECHNICAL DATA SHEET

Product Description

FloArm Coat EC-ME is a solvent free system based on epoxy resins and curing agents specially selected for their ability to withstand chemical attack. The system consists of pre-weighed base & hardener components and a MYK color paste pack, all of which contain reactive elements that are essential to the installation of the system.

A slip resistant texture can be provided by the use of one of a range of MYK Arment Antislip Grains which have been carefully graded to ensure an even texture.

General

FloArm Coat EC-ME is basically a three-component solvent free epoxy coating system characterized by thick non-porous film. The film formed is glossy hard.

Uses

Floor surface is cleaned properly using suitable surface preparation methods require, Apply Primer (FloArm Primer EP) on cleaned surface, Cured the primed surface minimum for 8hrs or maximum for one day. FloArm Coat EC is applied as on Primed floor surface coating system comprising of two top coats each top coat to be a minimum of 200 microns thick. To provide a slip resistant texture, the first top coat can be dressed with MYK Arment Antislip Grains.

- Dairies & Soft drinks production units
- Laboratories
- Computer assembly units
- Chemical manufacturing plant
- Car parks and work shops

Features and Benefits

- Solvent free - no solvent odor during product application.
- Adhesion on primed concrete surface with FloArm Coat EC-ME is excellent
- Chemical resistance to wide range of industrial chemicals
- Glossy film
- Anti-skid coating can be achieved by sprinkling MYK Arment Antislip Grains over the freshly applied wet coat
- No shrinkage
- Durable and no maintenance
- Available in wide range of colors.

Application Methodology

Step no.1: Surface Preparation

The concrete substrate must be sound and of sufficient compressive strength (minimum 20 N/mm²) with a minimum pull off strength of 1.5 N/mm². The substrate must be level, clean, dry and free of all contaminants such as dirt, oil, grease etc. All previous floor coating if any must be mechanically removed to the maximum extent possible. It is acceptable to re-lay on floor coating that has a firm bond (pull out strength of 1.5 N/mm²).

Concrete substrates must be prepared mechanically depending upon surface condition using abrasive blast cleaning or scarifying or grinding to remove cement laitance and achieve an open textured surface. Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repairs (blow holes/voids and surface leveling) to the substrate must be carried out using appropriate repair product. The concrete or screed substrate has to be primed or leveled in order to achieve an even surface. All dust, loose and friable material must be completely removed from surfaces before application of the product, preferably by brush and/or vacuum.

Ensure moisture content of the concrete surface below 4% no rising moisture according to ASTM D4263 (Polythene Sheet Method) and above 3°C dew point.

Step no.2: Priming

The concrete surface after proper and thorough surface preparation has to be primed with appropriate primer (FloArm Primer 1260 or 1290). The primer is a solvent free resin system. It is designed for better adhesion with the substrate and the flooring system. The primer should be mixed in the given proportions supplied. The entire contents of the hardener should be poured into the base and should be mixed using a low speed drill machine with an attachment for about 3 minutes @ (150-200 RPM) to get a homogeneous mix. Once mixed, the primer should be applied immediately on to the prepared concrete surface. After priming, the surface has to be kept for drying - approximately 8-12 hrs. For more information refer Primer TDS. Depending on the ambient temperature, application of FloArm Deck Coat EC can be undertaken.

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Priming for Damp Concrete/Rising moisture

Normal priming is limited to application below 4% surface moisture in concrete. If the moisture content is >4%, use special primers FloArm Primer 1250 or moisture barrier under lays i.e., Cempo® series of products.

Step no.3: Product Mixing

The base and hardener components of FloArm Coat EC-ME should be thoroughly stirred before the two are mixed together. The entire contents of the hardener container should be poured into the base container and the two materials mixed thoroughly, then add the Colour pot and mix for at least 3 minutes. The use of a heavy-duty slow speed, flameproof or air driven drill fitted with a Mixing Paddle. Mix these components in the quantities supplied taking care to ensure all containers are scraped clean. Filter the mixed mass through Nylon filter cloth to remove foreign particles if required. Never add solvent or thinners at any time

Step no.4: Product Coating Application

The first coat of FloArm Coat EC-ME should be applied Using a good quality Hair roller, suitable for epoxy application, or squeegee to achieve a continuous coating . Ensure that loose hairs on the roller are removed before use of roller. A minimum film thickness of 200 microns should be applied. When the first coat has reached initial cure (15hours @ 20°C or 10 hours at 35°C) . The top coat can be applied by medium haired roller, at minimum film thickness of 200 microns. Care should be taken to ensure that a continuous film is achieved.

Antislip Coating Application

If a slip resistant texture is required, the base coat shall be applied as per the standard application, but at a minimum film thickness of 300 microns. The base coat should then be dressed with the chosen MYK Arment Antislip Grain. This should be done as soon as possible after laying. The recommended procedure is to completely blind the basecoat i.e. apply excess dressing aggregate to completely obliterate the base coating. Alternatively, the MYK Indufloor Antislip Grains can be broadcast in a light random dressing to provide a less dense finish. When the base coat has reached initial cure (12 hours @ 30°C or 8 hours at 35°C),the excess aggregate should be cleaned from the surface. The top coat can now be applied by medium haired roller, at a rate of 2.5m2/kgs. Care should be taken to ensure that a continuous film is achieved and the rough surface, caused by the aggregate, is completely sealed. This top coat must be applied within 36 hours @ 20°C (15hours @ 35°C) of the application of the first coat.

Expansion Joints

Expansion joints in the existing substrate must be retained and continued through the FloArm Coat EC-ME topping.MYK Arment have a range of joint sealants specifically designed for flooring, contact local MYK Arment office for advice.

Cleaning

Tools and equipment should be cleaned with solvent immediately after use.

Limitations

FloArm Coat EC-ME should not be applied on to surfaces known to, or likely to suffer from, rising dampness and / or potential osmosis problems or have a very high relative humidity greater than 70% (at the time of application of FloArm Coat EC).MYK Arment does not recommend acid etching as a method of floor surface preparation.In common with all epoxy materials, some slight shade changes may be experienced over the long term when placed in adverse exposure conditions. Any such change in shade is not regarded as being detrimental to performance.

Technical Data

| The following values were obtained when tested at 30°C | |
|--|------------------------------|
| Pot life @ 25°C | 20 mins |
| Shore D Hardness | 70 - 90 |
| Cure time | 24 hours |
| Maximum time between coats | 15 hours |
| Light traffic use after (ASTM C 722) | 24 hours |
| Full traffic use after (ASTM C 722) | 48 hours |
| Resistance to chemical spillage (spote) (ASTM D1308) | 7 days |
| Compressive strength (ASTM D 790) | Approx.70 N/mm ² |
| Flexural strength (ASTM D 790) | Approx. 25 N/mm ² |
| Tensile strength (ASTM D 638) | Approx.15 N/mm ² |

Chemical Resistance

After fully cured (After 7 days at 30°C) FloArm Coat EC-ME is resistance to a wide range of aggressive chemicals commonly found in industrial environments. For details Contact MYK Arment Representative



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Consumption

Standard coverage

FloArm Primer EP: 4 - 5 m²/kg

FloArm Coat EC - ME: 3.0 m²/kg @ 200 microns wft
(First Base coat)

FloArm Coat EC-ME: 3.0m²/kg @ 200 microns wft
(Second top coat)

Converge Antislip (approx)(For medium texture)

FloArm Primer EP: 4 - 5 m²/kg

FloArm Coat EC-ME: 2m²/kg @ 200 microns wft
(First Base coat)

Antislip Grain No 2*: 1.25 - 3m²/kg

FloArm Coat EC-ME: 2m²/kg
(Second top coat)

Estimated system thickness : 1.5 - 2.0mm.

Packaging

FloArm Primer EP: 5 kg packs

FloArm Coat EC - ME: 5.5 kg packs
(Including Colour paste pack)

MYK Arment Antislip Grains: 25 kg bags

Storage and Shelf Life

FloArm Coat EC-ME having shelf life of 12 months when stored in warehouse conditions below 35°C in the original, unopened packs.

Health & Safety

FloArm Coat EC-ME 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