

FloArm ESF 1

(Formerly known as MYK INDUFLOOR ESF 10)

Free Flow Epoxy Screed



TECHNICAL DATA SHEET

Product Description

FloArm ESF 1 is a three-component solvent free system pre-weighed for on-site mixing. The floor provides a hard wearing, Semi Smooth, impervious and easy to clean treated surface.

Uses

- Laboratories
- Assembly Units
- Pharmaceutical units
- Computer assembly units

Features and Benefits

- Easy to apply
- Durable: Provides a hard and abrasion resistant floor topping
- Chemical resistant: good resistant to wide range of chemicals
- Hygienic: Hygienic seamless floor which is easy to clean

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 re moved 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 D 4263 (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 ESF 1 can be undertaken.

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 underlays i.e., Cempo® series of products.

FloArm ESF 1

(Formerly known as MYK INDUFLOOR ESF 10)

Free Flow Epoxy Screed



TECHNICAL DATA SHEET

Step no.3 :Product Mixing:

The reweighed three component pack of FloArm ESF 1 resin, hardener, & filler is to be mixed for 3 to 4 minutes with slow speed drilling machine fitted with a mixing paddle. The components should be mixed in a suitably sized mixing vessel. Add the hardener content to the base until an even texture is obtained. Now add the filler content graded aggregate to the mix slowly and continue the mixing for about 3 to 4 minutes slowly until a completely homogeneous mix is obtained.

Step no.4 :Application:

The material once mixed should be used within its specified pot life; the material is poured (Before pouring, stir well mixed mass manually to avoid any settlements at the bottom) on to the primed surface and spread to the required thickness with a notched steel trowel (2 mm V shape) , care should be taken not to over work the resin, spread evenly and slowly, the floor should be firmly rolled with a spiked nylon roller to help release any entrapped air in the material and help level any slight roller marks. The rolling should be carried out using a "back and forth" technique along the same path. An overlap of 50% with adjacent paths is recommended.

Technical Data

Mixed Density	approx. 1.7 Gm/cc
Shore D hardness (ASTM D 2240)	70 -80
Pot Life	Approx 20 Minutes @ 35° C Approx 45 Minutes @ 20° C
Overcoat	Approx. 24 hours up to a max. 48 hours at +30° C
Foot Traffic (ASTM C722)	24 hours @ 30°C 48 Hours @20°C
Vehicular traffic (ASTM C722)	48 Hrs at 30°C
Chemical Resistance	7Days@30°C
Full Cure	7 days
Compressive strength days (IS 9162) @ 30° C	500 Kg/cm² 7 Days
Flexural Strength (IS 9162) @ 30° C	200 Kgs/cm² 7 days

Product Compliance :

FloArm ESF 1 compliance to the standard EN 13813, SR-C50-F20-B2.0

Consumption

FloArm ESF 1 covers approx. 17.5 square meter @1mm thickness for a standard pack of 30 Kgs.

Application Thickness Recommendation:

Coverage's are subject to surface conditions.
Minimum 1mm to maximum 1.5mm

Packaging

Supplied in 30 kg composite pack.

Storage and Shelf Life

12 Months if stored in cool dry place, unopened condition

Health & Safety

FloArm ESF 1 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.

FloArm ESF 1

(Formerly known as MYK INDUFLOOR ESF 10)

Free Flow Epoxy Screed



TECHNICAL DATA SHEET

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.

MYK Arment Private Limited
8-2-703/A, 3rd Floor, Leela Gopal Towers, Road No. 12, Banjara Hills, Hyderabad -500 034
Tel: +91 40 6816 0001 | Email: myk@mykarment.com | www.mykarment.com

