

FloArm ES

(Formerly known as MYK INDUFLOOR®- ES)

Three component Epoxy Mortar



TECHNICAL DATA SHEET

Product Description

FloArm ES is basically a three component solvent free screed based system consisting of Base, hardener and filler in pre-weighed packs in exact proportions for mixing at site. When applied on the concrete surface it provides non-skid high strength flooring capable of withstanding extremely heavy wear and tear.

This heavy duty industrial mortar screed provides an extremely high strength floor topping with excellent mechanical properties and resistance to chemical spillages by providing non slippery surface.

Uses

Production line areas of engineering areas

- Work shop factory floor
- Machine shop ware houses
- Depots loading ramps
- Automobile plants
- Power Houses
- Bottling Plants
- Dairies

Features and Benefits

- It is basically a solvent free epoxy system
- Impact load: High resistance to Impact load
- Bonding: Excellent bond to concrete
- Durable: Excellent resistance from mechanical wear
- Non -slip: Good gripping surface to pedestrian/foot traffic and vehicular traffic
- Seamless: Tough, easy to clean

Application Methodology

Step no 1: Surface Preparation:

It is essential the floor on which epoxy screed is likely to be laid should be as per the civil engineering standards. The substrate must be structurally sound, clean, dry and free from laitance of loose material. The surface should be atleast 28 days old and moisture content must be less than 4%. Any unsound material must be chipped off before proceeding to lay the epoxy screed. The light laitance has to be removed by acid etching followed by thorough washing with clean water.

New Concrete:

The new concrete or cement substrate on which the system is likely to be applied should be 28 days old and have moisture content less than 4%. If moisture contents is more than 4% use MYK Arment special primer FloArm primer 1250.

Old Concrete:

An old concrete floor is strongly recommended for mechanical cleaning method because of the heavy contamination by oil, grease etc. for better adhesion with the existing surfaces all contaminations should be removed. On oily surface use MYK Arment special primer FloArm 1240.

Step no 2: Priming:

The concrete surface after proper and thorough surface preparation has to be primed with FloArm Primer 1260. The primer is basically a solvent free epoxy system. It is designed basically 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 added in to the base and should be mixed using a low speed drill machine for about 3 minutes to get a homogeneous mixture. Once mixed, the primer should be applied immediately on to the prepared concrete surface. @ 250 gms per Sq mtr. Mix the primer component A and B mechanically and apply with brush (on Moisture surface use FloArm Primer 1250, and Oily surface use FloArm Primer 1240).

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Step no 3 : Product Mixing:

Mixing of FloArm ES:

It is very important that mixing is done correctly. A suitable forced action mixer like paddle is attached to a slow speed electric drill machine. It is highly recommended that the filler content is mixed manually before being added to the epoxy system. The pre-weighed packs of the three components resin, hardener, and silica flour has to be mixed thoroughly. The components should be mixed in a suitably sized mixing vessel. The hardener content is added to the base and stirred until an even color and 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 Product Application:

The material once mixed should be used within its specified pot life; spread the material uniformly on to the primed surface (wet or tacky primed surface condition within two hours from the application of FloArm Primer EP to get a even thickness with a steel trowel, care should be taken not to over work the resin, the material should be compacted and finished with a steel float for desired thickness. This may also be power trowled with plastic coated disc.

Coving:

Epoxy mortar can also be used for coving purpose up to height of 200mm

Sealing:

After initial hardness has been reached the slightly porous surface is sealed with two coats of epoxy solvent free floor coating. Before the application cold joints and trowel marks rubbed down. Generally, two coats are recommended as a sealer coat for properly compacted screed.

Technical Data

Base	Epoxy Resin
Color	Light brown
Mixed Density	Approx. 2.00 Gms/cc
Pot life	40 minutes @ 27° C
Foot traffic	24 Hours @ 30°C
Cure	24 hours
Full cure	7 days
Compressive Strength 7 days @30°C (IS 9162)	600 Kg/cm ²
Flexural Strength @ 7 Days (IS 9162)	Approx 200 Kgs/cm ²
Tensile Strength @ 7Days (IS9162)	Approx 120 Kg/cm ²
Pull out bond Strength (ASTM D 4541, type-1) (concrete surface)	>2.0 N/mm ² (at 30°C) @ 7 days (Concrete failure)

Coverage

4 Sq mtr @ 3mm thick for 24 Kg pack

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Packaging

24 kgs pack (Resin + Hardener + Filler)

Storage and Shelf Life

1 year if stored in cool dry place

Precautions

FloArm ES 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

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