MYK SCHOMBURG

High-performance Construction Chemicals

Technical Data Sheet

MYK INDUFLOOR® - ES

Three component epoxy mortar

General:

Heavy duty industrial motor screed is build up with three components of epoxy resin materials and filler. It provides an extremely high strength floor topping with excellent mechanical properties and resistance to chemical spillages by providing non slippery surface.

Areas of application:

- Production line areas of Engineering areas
- Work shop factory floor
- Machine shop ware houses
- Depots loading ramps
- Automobile plants
- Power Houses
- Bottling Plants
- Dairies

Advantages:

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

Description:

MYK INDUFLOOR-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

Technical Data:

Base:	Epoxy Resin
Color:	light brown
Pot life:	45 Min at 27 d
Foot traffic:	24 Hours
Compressive strength:	@ 7 Days (BS 6319): 600 kg/cm2 (at 30 d cesium temp)
Flexural Strength:	@ 7 Days (BS 6319) Approx 200 Kgs/cm2
Tensile Strength:	@7Days (BS6319): Approx 120kg/cm2
Mixed Density:	Aprrox. 2.00 Gms/cc
Coverage:	4 m2 for 3mm thick for 24 Kg pack
Initial Cure:	24 hours
Full cure:	7 days

Pull out bond Strength to concrete surface @ 7 days: 2.0 N/mm2 (at 30D Celsius)

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 at least 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 SCHOMBURG's special primers MYK INDUFLOOR-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 SCHOMBURG special primer MYK INDUFLOOR-1240

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Priming:

The concrete surface after proper and thorough surface preparation has to be primed with MYKIndufloor EP. The primer is basically a solvent based 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 in to the base and should be mixed using a low speed drill machine with an attaché 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 MYK Indufloor 1250, and Oily surafce use MYK INDUFLOOR 1240)

Mixing:

Mixing of MYK INDUFLOOR-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 prewieghed 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.

Application:

The material once mixed should be used within its specified pot life; spreaded the material uniformly on to the primed surface(Tacky primed surface condition within two hours from the application of MYK INDUFLOOR-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 trawled 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

Precautions

MYK INDUFLOOR-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

Supply: 24 Kgs pack of Resin hardener and filler

Coverage: 4Sq mtr @ 3mm thick for 24 Kg pack

Shelf Life: 1 year if stored in cool dry place

Quality Policy

The information given in the date sheet is based on the years of experience, and found correct to the best of our knowledge. However the success of the product & its application is dependent on many external factors. We are fully assured of our products quality at the time of dispatch. As we are constantly endeavoring to enhance the qualities of our products which may reflect changes it the data sheets. Hence in the event of any doubt on critical parameters it is advisable to consult our technical department

Technical Support:

Technical information regarding SCHOMBURG range of products can be obtained from the technical cell of MYK SCHOMBURG

Note:

Information in this technical data sheet is to the best of our knowledge true and accurate. However, such conditions under which our products may be used are beyond our control, recommendations

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