SealArm EMS

(Formerly known as MYK SEAL EMS)

Two Component Epoxy modified PU Sealant

TECHNICAL DATA SHEET

Product Description

It is basically a two component pouring grade semi rigid epoxy PU modified sealant for filling control and construction joints in industrial concrete floors. The mixed sealant is self leveling and can be poured directly into horizontal joints to form a tough resilient seal. It supports the joints edges and reduces spelling of edges caused by wheel traffic.

Uses

For sealing internal floor joints subject to heavy industrial use in factories, particularly for sawn joints in long strip floorings and other large internal areas

Features and Benefits

Load bearing for support of arises under heavy wheel loads self leveling to produce uniform and neat joints pouring grade to ensures ease of placing good resistance to Hydrocarbon fuels.

Application Methodology

Joint Preparation

Joint surfaces must be clean, dry and free from laitance dust or any other foreign material. All dry residual dust from joint cutting operations should be completely removed using a rotary power brush, dry abrasive blasting or other approved means. Blow all joints clean using dry oil free compressed air. Debonding tape should be used in the base of all joints except where foam backing cord is used. Where a neat finish is required, masking tape should be applied down each side of the joint prior to the start of the sealant works, it should be removed immediately after the sealant works are complete

Step no.1: Surface Preparation

It is essential that the SealArm EMS is applied on sound cleaned and dry primed surface in order that maximum bond strength is achieved between the substrate and flooring system. 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 content is more special primers for damp moist floors have to be applied. Consult the Technical Department of MYK Arment for product specification or guidance

Step no.2: Priming

Cleaned Joint surface should be Prime with FloArm Primer EP (Coverage: 80 running meter per kg @10mm joint depth).Then allow primed surface to dry for minimum 8 hrs and maximum for 1 day.

Step no. 3: Product Mixing

The components of SealArm EMS are supplied in the correct mixing ratio. Add the entire contents of the hardener component into the base container and mix together thoroughly for three minutes using a slow speed drill (300 to 500 rpm) fitted with a mixing paddle. Ensure any settlement is thoroughly dispersed. The sides of the container should then be scraped down to ensure that any unmixed components do not remain. Mixing should then continue for a further 2 minutes

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Step no.4: Product application

The mixed SealArm EMS can be poured directly from the mixing container. Pour into the joint to the required level. It may be necessary after few minutes to top up the level of sealant after it has flowed into all joint irregularities. Finally strip of the masking tape that has been used

Guide to Estimate sealant quantities:

Sealant requires in kgs

$$\frac{W \times D \times L \times \text{Mixed Density}}{1000}$$

W – Joint Width in mm
D – Sealant Depth in mm
L – Joint Length in Mtr
MD- It should be in gm/cc

Limitation

- SealArm EMS is not UV stable
- Colour of the SealArm EMS has a tendency to turns in yellowishness over a period of time and depends on exposure environment.
- Not recommended for vertical joints.

Cleaning

Clean the tools with FloArm Clean PU after application over.

Technical Data

Colour Range	As per shade card
Colour Stability	Un stable
Movement accommodation factor	Maximum up to 10%
Mixed Density	Approx. 1.45 gm/cc
Pot life	30 minutes at 20ºC 15 minutes at 35ºC
Shore A Hardness	50 – 80 (7 day)
Cure time (Initial)	24 hrs. at 25ºC 12 hrs. at 35ºC
Full Cure	4 days at 25ºC 3 days at 35ºC.
Application temperature	+10ºC to 35ºC

Joint Design

The joint should be so designed that the movement due to concrete shrinkage and thermal change does not exceed the 10% movement accommodation factor related to the joint width. The maximum concrete shrinkage will take place within the first 28 days of concrete due to which the sealant work should be carried after the time.

Joint width (mm)	Sealant depth
5 -10 mm	5 – 10 mm
10-25 mm	10 -20 mm
Above 25 mm	½ to ¾ width

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Packaging

SealArm EMS: 5kg Packing

Storage and Shelf Life

12months in original containers stored in cool dry conditions i.e. not exceeding 25°C. Storage above this temperature may reduce storage life.

Health & Safety

SealArm EMS epoxy based product it is advised to use gloves and barrier cream when handling the product. If contact with resin occurs it must be cleaned before hardened use plenty of water and soap and not solvent

Product Categories Available

Legal Note

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