

FloArm Top PUC

(Formerly known as MYK INDUFLOOR PUC)

Polyurethane based Flooring



TECHNICAL DATA SHEET

Product Description

FloArm Top PUC is a blend of epoxy & Polyurethane resin system. Each system contains three pre-weighed packs (Base, Hardener and colour paste) of exact proportions for mixing and use on site. Ideally suited for use in areas where flexibility and heavy duty floor toppings are needed such as car park areas, parking decks etc where a lasting to low maintenance floor is required.

Uses

FloArm Top PUC is used as Crack Bridge coating which is impervious to liquids, on concrete and cement based screeds

- On parking and access areas in car parks and garages
- On Industrial floor areas
- Bridge Parapets

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 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 Top PUC 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.

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Step no 3: Product Preparation:

Base Component (Resin), colour paste Component and Hardener component are delivered in a predetermined mixing ratio. Add the colour paste component to Base Component (Resin), ensure that the Colour paste drains completely from the container. Mixing of components is to be carried out with a suitable mixer at approx 300 rpm with a paddle to the drill. Mix it for 1 to 2 minutes till uniform colour & a homogeneous mass is obtained. Now add hardener component. It is important to also stir from the sides and the bottom to ensure that the Hardener is evenly dispersed. Mix for 4 to 5 minutes slowly again until a completely homogeneous mix is obtained. The minimum temperature during mixing should be +15 °C. (Do not use the mixed material directly from the packaging. Decant the material into a clean container and mix thoroughly once again).

Step no 4: Application Of First Coat:

Trowel apply FloArm Top PUC @1.95Kgs/m² for 1.5mm thick in one application. By using a spiked roller de-aerate the finish coat which will avoid the formation of bubbles.(Minimum curing for 16 - 24 hrs) Consumption approx.1.96Kgs/m² for 1.5 mm thick in one application.

Application of Wearing Coat:

1. Trowel apply the wearing coat FloArm Top PUC: Consumption approx 1.5Kgs/m² for 1.15mm thick in one application
2. Broadcast Quartz sand, Grain size 0.7 - 1.2 mm into the wet coating. Consumption approx. 4 kg/m²
3. Once cured (Minimum curing for 24 hrs) thoroughly remove unbounded quarts sand before applying the Finish coat. Products quality at the time of dispatch. As we are constantly endeavoring to enhance the qualities of our products which may reflect changes in the data sheets. Hence in the event of any doubt on critical parameters it is advisable to consult our technical department.

Application of Finish Coat:

Roller / Brush apply the finish coat Indufloor IB 2320 in one application.
Consumption: Approx. 600gms/m².

Note:

- Where the application area has moisture content more than 4% either in Positive side or negative side, it is recommended to use FloArm Primer 1250 as primer instead of FloArm Primer 1260
- Waiting time between individual coatings should be between 16 to 24 Hrs at +23° C and 75% relative humidity
- The working/ambient temperature has an effect on the pot life of the product.

Technical Data

Base: Epoxy	Polyurethane Resin
Density	1.30 g/cm ³ at +27°C
Color (unstable if exposed to UV and direct sunlight)	Available in Colors
Pot Life	45 Min at +23°C 15 Min at +30°C
Shore A Hardness (ASTM D 2240)	Approx. 60
Application temp	Minimum +15°C, Max 30°C +27°C
Traffic after (ASTM C 722)	Approx 24 Hrs at 30°C
Over coat After	Approx 24 Hrs up to 36 Hrs at + 27°C
Full Cure (ASTM C 722)	After Approx 7 days at + 27°C
Elongation at break	130% at +27°C
Tear Strength	5.3N/mm ² at +27°C

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Consumption

As a first coat: - FloArm Top PUC covers an area of 3.3/m² of 1.5 thicknesses for a standard pack of 6.5 Kgs pack.

As a wear coat: - FloArm Top PUC covers an area of 4.25Sq. Mtrs of 1.15 thicknesses for a standard pack of 6.5 Kgs pack.

Packaging

FloArm Top PUC is supplied in 6.5 kg pack

Storage and Shelf Life

6 Months if stored in cool dry place under shaded area and if in un opened and sealed condition

Health & Safety

FloArm Top PUC 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.

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