

# FloArm PU Shield - M

(Formerly known as MYK Coat PUD-MATT Clear)

Protective Polyurathane Sealer Coat



## TECHNICAL DATA SHEET

### Product Description

FloArm PU Shield - M is a two component, clear aliphatic polyurethane coating. It provides excellent abrasion resistance, improved scratch resistance and a clear matt finish.

#### Uses

- FloArm PU Shield - M is used as a surface protection on
- Precast concrete slabs
- Precast concrete panels
- Concrete and cement-based screeds
- Over HPU as a protective coat
- Magnetite and calcium sulphate screeds
- FloArm coatings, especially those coatings
- Broadcast with INDU-Farbchips or INDU-Decor-Quartz.

#### Features and Benefits

- Clear translucent, aesthetic finish
- No solvents needed for clean-up on project
- Excellent UV resistance
- Virtually no odor, very low VOC
- Easy to clean and maintain
- Cures to a satin matt finish
- Good chemical resistance.
- Excellent abrasion resistant
- Improved scratch resistant

### Application Methodology

#### Step no 1: Surface Preparation:

The area to be treated must be: Dry, firm, sound and have a good grip Remove curing and parting compounds and other surface hardeners and floor coatings in accordance with the manufacturer's instructions free from separating and adhesion inhibiting substances such as e.g. dust, grease, rubber marks, paint residues and similar. Use suitable means to prepare the substrate dependent on its condition such as e.g. abrading, brushing, sweeping and vacuuming. Apply a 5 by 5 ft. test in an inconspicuous area that meet the owner's expectations for appearance, slip resistance and performance. As the Gloss of the clear coat will be totally depends on the porosity of the surface. The FloArm coating to be sealed should not be older than 24 hours, to ensure that the parent surface does not get condemned.

#### Step no 2: Product Mixing:

Components A (resin) and B(hardener) are delivered in separate containers in a predetermined mixing ratio. Pour component A into component B. Ensure that the hardener drains completely from its container. Mixing of the components is to be carried out with a suitable mixer at approx. 300 rpm (e.g. drill with paddle). It is important to also stir from the sides and the bottom to ensure that the hardener is evenly dispersed. Stir until the mix is homogenous (free from striations); mixing time 3 minutes. The minimum temperature during mixing should be +25°C. Do not use mixed material directly from the packaging. Decant the material into a clean container and mix through thoroughly once again.

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#### Step no 3: Product Application:

Apply FloArm PU Shield - M in two coats. Pour the mixed material over the floor in sections and spread with a solvent resistant rubber bladed squeegee and subsequently roll thoroughly and evenly with a short napped fur roller or surface leveler. Keep areas of overlap to a minimum.

#### Physiological Behavior and Protective Measures:

Once cured FloArm PU Shield - M is harmless. When using this product the government health and safety protective directive.

#### Important Advice:

1. Higher temperatures shorten the pot life. Lower temperatures increase the pot life and curing time. Material consumption is also increased at lower temperatures.
2. Waiting times between individual coats – min. 12 hours, max. 24 hours.
3. Ensure there is good ventilation and extraction during the drying and curing phases.
4. The bond between the individual coats to one another can be heavily impeded through the influence of dampness or contamination between the applied coats.
5. The minimum substrate temperature must be a minimum of  $< 3^{\circ}\text{C}$  above the dew point temperature.
6. Applications that are too thick (greater material consumption) lead to an irregular finish, to crack formation and debonding.
7. Protect surface protective systems from moisture (e.g. rain, melt water) for approx. 4 - 6 hours after application. Dampness can produce a white discolouration.
8. Applications that are not clearly explained in this technical data sheet may only be carried out after consultation with and written confirmation from the Technical Services Department of MYK Arment.
9. Cured product residues are to be disposed of under waste disposal classification of local govt. body regulation

#### Technical Data

Basis	Two components Polyurethane - Aliphatic resin
Colour	Transparent - matt
Mixed Density	Approx. $.1.10 \text{ g/cm}^3$ at $+27^{\circ}\text{C}$
Viscosity	Low viscosity
Pot life	Approx. 30 minutes at $+ 27^{\circ}\text{C}$
Application And substrate temperature	
min	Approx. $+8^{\circ}\text{C}$ ,
max	Approx. $+30^{\circ}\text{C}$
Foot traffic after	Approx. 1day @ $30^{\circ}\text{C}$ $<75\%$ RH
Solids content	Approx. 50%
Fully cured @ $25^{\circ}\text{C}$ and 50% humidity, Lower the temperature will extend the cure times significantly	7 days

#### Consumption

Coverage rates are approximate and will vary with the desired texture and the porosity of the substrate.

Porous substrates: approx.  $250 \text{ g/m}^2$ ,

Non-porous substrates:  
approx.  $150 \text{ g/m}^2$  (actual consumption would depend on the surface, These data are for reference)

#### Packaging

FloArm PU Shield - M is available in 4.0 kg composite pack. Components A and B (separate containers) are delivered in a predetermined mixing ratio.

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#### Storage and Shelf Life

6 months when stored dry, cool and frost-free above + 10°C in the original unopened packaging under shaded area. Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Shelf life is 6 months when stored as per above. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice please consult MYK Arment Technical Services Department.

#### Precaution and Limitation

- Precondition this product to (25°C) for 24 hours before using.
- Do not exceed the recommended recoat window of 24 hours. If in doubt, contact your MYK Arment Technical Services
- FloArm PU Shield M should not be used in applications where direct, extended contact with tires is expected.
- Use an effective moisture barrier for substrates on or below grade. If not present, contact your MYK Arment Technical Services.
- Install this product at a substrate temperature between (20 and 30°C)
- Tools should be carefully cleaned immediately after use with water. Once the material has cured,
- MYK Arment representatives and floor specialists are available to assist you in the selection of the proper flooring system.
- Proper application is the responsibility of the user. Field visits by MYK Arment personnel are for the purpose of making technical recommendations only and are not for supervising or providing quality control on the jobsite.

#### 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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