

FloArm Coat PUV

(Formerly known as MYK Coat PUV)

Two component aliphatic polyurethane protective coating



TECHNICAL DATA SHEET

Product Description

FloArm Coat PUV is a two component, pigmented, aliphatic polyurethane coating possessing good resistance to long term exposure of UV rays and chemical attack.

Uses

FloArm Coat PUV provides an easily cleaned chemical and UV resistant protective coating, also suitable for external waterproofing.

Features and Benefits

- Durable: Low maintenance costs
- Non-yellowing: Will not yellow on exposure to UV rays.
- Chemical resistant: Excellent resistance to most industrial chemicals
- Hygienic: Seamless surface, easily cleaned

Application Methodology

Step no 1: Surface preparation

All surfaces must be smooth, sound and free from debris, loose or flaking material and areas of standing water. Surfaces must be free from contamination such as oil, grease, dust, loose particles and organic growth. Concrete surfaces must be fully cured, laitance free and free from any traces of shuttering, release oils and curing compounds. All surfaces should then be grit blasted to remove all foreign matter and open up blow-holes and provide a suitable key for FloArm Coat PUV. All blow holes and imperfections should be filled with ReArm Bond 4031 epoxy putty.

Step no 2: Product Mixing

The individual components should be thoroughly stirred before mixing them together. The components should then be mechanically mixed together for at least 3 minutes using a slow speed (400 - 500 RPM) drill machine attached with a mixing paddle.

Step no 3: Product Application

Apply FloArm Coat PUV with a nylon brush, or a flat pile felt roller, to the prepared substrate at a thickness of 100 microns WFT (45 microns DFT). Allow FloArm Coat PUV first coat to dry for 2-4 hours at 30°C and then apply the second coat. When applying FloArm Coat PUV as topcoat over any of the FloArm Coat PUV range of epoxy systems, it must be applied after 6 hours but within 24 hours of applying the epoxy.

Note: When applying FloArm Coat PUV, if the moisture content in the substrate is more than 3%, blistering of the coating may occur.

Curing

This coating will become tack free in approximately 2 - 4 hours and be fully cured in 5 days.

Number of coats

Two finish coats are recommended unless used as atop coat for freshly applied epoxies.

Cleaning

Clean tools and equipment immediately after use with FloArm Clean PU. Wash hands and skin with soap, or an industrial hand cleaner.

Limitations

Minimum ambient surface and material temperature must be between 10 to 40°C. For applications outside this range, contact MYK Arment for advice. Application of the product should be always on dry substrates.

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Technical Data

Mixed density	1.26 g/cc
Pot life	Min.1 hour @ 30°C
RecoAt time	2 - 4 hours @30°C
Initial cure	16 hours @ 30°C:
Final cure	5 days @ 30°C
Flash point	35°C
Wet film thickness	100 microns/coat
Dry film thickness	45-50 microns/coat
No. of coats	2

Colours: Available in White and light sky blue

Specification clauses

MYKS offers technical support & service to specifiers and contractors as well as on-site assistance .As a protective coating - "Areas as marked on the steel,concrete and/or masonry shall be applied/coated with FloArm Coat PUV, a two-component aliphatic polyurethane coating to a thickness of 90 -100 microns DFT in two coats of application .When exposed to UV rays for long periods, the cured coated film shall not yellow and chalk. The coated surfaces should retain a semi-gloss finish. The pot life of the mixed material shall not be less than one hour at 30 °C.It shall be recoating able in 2 - 4 hours at 30 °C and shall cure fully in 5 days at 30 °C.It shall be resistant to spread of flame when tested as per UL94 Standards. It shall develop a minimum bond strength to steel or cementitious substrates of 1.5 N/mm2, when tested for Pull Off strength with an Elcometer."

As a waterproof coating- "Providing and applying a two-part polyurethane based waterproof coating FloArm Coat PUV in 3coats of application @ 0.1litre/m2/coat, over RCC slabin cluding sprinkling of clean sand (300 microns – particle size) or, pea gravel and, laying PCC (1:2:4), mixed with integral waterproofing compound, AquaArm Proof WP-10, at a dosage of 150ml/50 kg bag of cement, over the fully cured FloArm Coat PUV Coating, as per manufacturer's specifications. It shall be an aliphatic, no yellowing, on chalking polyurethane based waterproof coating; with a minimum bond strength of 1.5 N/mm2 to concrete when tested with a Pull Off tester. "The cured film shall be protected with concrete screed / mortar when used on accessible roofs to avoid damage from foot traffic".

Chemical Resistance

FloArm Coat PUV is resistant to chemical attack at ambient temperature, under the following exposure conditions	
Hydrochloric acid (20%):	Occasional contact
Nitric acid (15%):	Occasional contact
Sulphuric acid (10%):	Regular contact
Citric acid (10%):	Occasional contact
Sodium Hydroxide (50%):	Occasional contact
Ammonia (10%) Soln:	Occasional contact
Bleach concentrate:	Occasional contact
Urea (Saturated):	Regular contact
Sugar (Saturated):	Regular contact
Sodium Chloride (Saturated):	Regular contact
Methanol:	Occasional contact
Butanol:	Occasional contact
Mineral spirits:	Regular contact
Xylene:	Occasional contact
Lubrication oil:	Regular contact
Gasoline:	Occasional contact
At elevated temperatures or where mixtures of chemicals are involved, the effects may be different than the above results. Consult MYK Arment for advice.	



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Consumption

The theoretical coverage is 10m²/litre/coat at 45-50 microns DFT (100 microns WFT). However practical coverage may vary depending on the porosity of substrate, application thickness etc.

Packaging

FloArm Coat PUV: 3 KG

Storage and Shelf Life

FloArm Coat PUV has a shelf life of 6 months when stored under normal warehouse conditions in unopened containers. Exposure to moisture greatly reduces the shelf life, particularly that of the hardener.

Annotation

Minimum ambient surface and material temperature must be between 10 to 40C. For applications outside this range, contact MYK Arment for advice. Application of the product should be always on dry substrates.

Health & Safety

FloArm Coat PUV and FloArm Clean PU should not come in contact with skin or eyes nor should they be swallowed.

Avoid inhalation of vapours and ensure adequate ventilation. Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye/ face protection.

Should accidental skin contact occur, remove immediately with a resin removing cream followed by washing with soap and water - do not use solvent.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed seek medical attention immediately – do not induce vomiting.

For further information, please consult the Material Safety Datasheet.

Fire

FloArm Coat PUV and FloArm Clean PU are flammable. Do not use near a naked flame.

Flash Point:

FloArm Clean PU – 30°C



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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.