

FloArm DeckCoat PU-1

(Formerly known as MYK DECK COAT PU 100)

4-Part PU Textured Coating and Seal Coat for Car Parking Area and MLCPs



TECHNICAL DATA SHEET

Product Description

FloArm DeckCoat PU-1 is a four-part, low solvent containing coloured Polyurethane resin based coating with thixotropic properties specially formulated for application in Car Parks.

Uses

- For multi-storied and underground car parks.
- Slip resistant coating for concrete and cement screeds
- Deck coat Cosmetically enhance car parking with reduction of power consumption and lower noise
- Can be subjected to medium to heavy mechanical and chemical loading.
- It is also recommended to use for processing areas in commercial establishments.

Features and Benefits

- Slip resistant non-quartz finish.
- Good abrasion resistant.
- Good chemical resistance.
- Easy and fast application.
- Easy to clean.
- Excellent adhesion to substrate.
- Good chemical and mechanical resistance.
- Easy application.
- Economical.
- Impermeable / waterproof.
- Fuel resistant.
- Anti-carbonation.
- Semi-Glossy aesthetic finish.
- Light Refractive – does not reflect headlight beam.
- Variable levels of anti-slip textures possible.
- Seamless / joint free application possible.
- Does not support growth of bacteria and fungus.
- Complete system like coving, line marking, detailing, wall coating and reflectors.
- Wide range of colors (refer shade card).

Application Methodology

Step no 1: Surface Preparation:

Correct substrate preparation is critical for optimum performance. Surfaces should be clean, and free from loose particles, curing membrane or any other contaminant. Oil, grease, mould release agent, curing membrane, and such other contaminants must be removed.

Concrete substrates must be prepared mechanically using abrasive blast cleaning, scarifying or grinding equipment 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 to the substrate, filling of blowholes/voids and surface leveling must be carried out using appropriate products from the MYK Arment range of materials.

The concrete or screed substrate has to be primed or leveled in order to achieve an even surface. High spots must be removed by e.g. grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

For advice on the appropriate method for the site situation, please contact MYK Arment technical team.

Substrate Quality: 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. Most Lower basement concrete must be treated with DPM/DPC treatment to avoid moisture rising in concrete floor. The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface. Ensure moisture content of the concrete surface below 4% According to ASTM F 2659.

FloArm DeckCoat PU-1

(Formerly known as MYK DECK COAT PU 100)

4-Part PU Textured Coating and Seal Coat for Car Parking Area and MLCPs



TECHNICAL DATA SHEET

Step no 2 : Primer coat

FloArm Primer 1290 is the recommended as primer coat for good Quality substrate condition and only where the moisture content of substrate is below 4% two coats recommended for absorptive concrete surfaces. Apply the second coat after 8 - 12 hours of the first coat.

Make sure that a continuous; pore free coat covers the substrate. Apply the primer by brush, trowel or roller.

Note: Epoxy primer may be useful for concrete substrate top surface consolidation. If strength concrete surface is in doubt then it may be improve using epoxy primer FloArm Primer 1260 or FloArm Primer EP and then re-coating with FloArm DeckCoat PU-1 after 24 hrs at 27°C.

Step no 3 : Product Mixing

Prior to mixing, stir base part mechanically. Pour base part into clean container, then add colour paste into container mixed for 1 minutes to produce uniform colour, then add Filler part into mixed material, Mix it for 2-3 minutes with slow speed until a uniform and lumps free mix has been achieved, then add hardener part and mixed mass for 1 minutes, to ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to minimize air entrainment.

Mixing Tools:

FloArm DeckCoat PU-1 must be thoroughly mixed using variable speed electric stirrer (300-400 rpm) or other suitable equipment.

Step no 4 : Application Method texture coating

Prior to application, confirm substrate moisture content, relative humidity and dew point.

If > 4% moisture content, Moisture barrier primer or FloArm Cempo series of products may be applied as a Temporary Moisture Barrier (TMB) system.

Texture Coating:-

Texture application of the FloArm DeckCoat PU-1 is carried out in a single coat application. FloArm DeckCoat PU-1 is spread evenly using a serrated trowel (1mm V-Notch) at the correct coverage. Next, evenly roll the surface with the texture roller within the 5 minutes of spreading of material. Do not over roll/ re-roll the texture pattern of the roller application. Important – ensure that the entire process is done within the pot life of the material

UV protection top coat:

Apply protective Top Coat using FloArm Coat PUD to the Wear Coat at an application rate of 200 – 250 g/m² using coating roller.

Pot life of 6 kg mass will be 20 minutes; at +23°C it will have varied with the temp/over stirring and mass.

Waiting Time / Over coating: -

Before applying texture coat of FloArm DeckCoat PU-1 on primer coat of FloArm Primer 1290 allow:

Substrate temperature	Minimum	Maximum
+10°C	48 hours	6 days
+20°C	36 hours	4 days
+30°C	24 hours	2 days

Curing: -

Loading or usage of FloArm DeckCoat PU-1 should be done ideally after 7 days, depending upon the ambient temperature & humidity, however, the minimum time required for gaining strength is as follows: -

Substrate temperature	Minimum
+10°C	10 Days
+20°C	7 Days
+35°C	3 Days

The above table shows an approximate value and will be affected by changing ambient conditions particularly temperature and relative humidity.

FloArm DeckCoat PU-1

(Formerly known as MYK DECK COAT PU 100)

4-Part PU Textured Coating and Seal Coat
for Car Parking Area and MLCPs



TECHNICAL DATA SHEET

Technical Data

Appearance	Light yellowish colour viscous liquid
Base	
Hardener	Yellowish viscous liquid
liquid Colour paste	As per our shade card
Mixed Density	1.63 kg/litre
Pot life	20 minutes @23°C
Mixed Solid content	Approx. 90 %
Application Temperature	Min. approx. +15°C, Max. approx. +35°C
Appearance of dry film	Texture and eggshell matt
Foot traffic after, at +27°C (ASTM C722)	Min. approx. 12 hours
Fully cured, after at +27°C (ASTM C 722)	Approx. 7 days
Bond strength @ 7 days at +27°C (ASTM D4541-95)	1.5 N/mm ² (concrete failure)
Mechanical / Physical Properties:	
Taber Abrasion resistance (1000g, 1000 cycles) (ASTM D4060)	Wheel weight loss, mg CS17 Wheel – 30 H-10 Wheel – 38
Chemical resistance* (ASTM E303)	Resistant to many chemicals
Thermal resistance Exposure**	Dry heat pretreatment +50°C

*No simultaneous chemical and mechanical exposure.

Physical Properties on clean surface Humidity @ 50% , Temp 30 Deg C	
Skid Resistance (ASTM E303)	40 - 45

Consumption

Coverage of Texture coating system:-

Coating System – Single	Consumption
Primer (FloArm Primer EP / FloArm Primer 1290)	Approx.0.200 – 0.600 kg/m ² /coat
Texture Coat With FloArm DeckCoat PU-1	Approx. 0.80 to 1.2 kg/m ²

For textured coating DFT will not be uniform at all every place due to texture effect.

For roughly finished base concrete slab, the consumption of the primer would be approx.0.2 to 0.5 kgs/m² extra. A trial patch is suggested to assess correct consumption. This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variation in level or wastage, etc.

Packaging

FloArm DeckCoat PU 1 is available in 6 Kgs composite kit pack (B+H+F+CP)

Storage and Shelf Life

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 12 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 consults MYK Arment Technical Services Department.

FloArm DeckCoat PU-1

(Formerly known as MYK DECK COAT PU 100)

4-Part PU Textured Coating and Seal Coat
for Car Parking Area and MLCPs



TECHNICAL DATA SHEET

Health & Safety

FloArm DeckCoat PU 1 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.

Precaution and Limitation:-

- Do not apply FloArm DeckCoat PU-1 on substrates with rising moisture.
- Freshly applied FloArm DeckCoat PU-1 must be protected from damp, condensation and water for at least 24 hours.
- Avoid puddles on the surface with the primer.
- The incorrect assessment and treatment of cracks May lead to a reduced service life and reflective Cracking.
- For exact colour matching, ensure the FloArm DeckCoat PU-1 in each area is applied from the same control batch numbers of colour paste.
- Under certain conditions, under floor heating or high ambient temperatures.
- Combined with high point loading, may lead to imprints in the resin.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour which may adversely affect the finish. For heating use only, electric powered warm air blower systems.

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.