FloArm DeckCoat PU-2

(Formerly known as MYK DECK COAT PU 200)

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

MYK arment®

TECHNICAL DATA SHEET

Product Description

FloArm DeckCoat PU-2 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.
- Base & Seal coat for broadcast coatings for Ramp.
- 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.
- 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 colours (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 blow holes 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 20N/mm2) with a minimum pull off strength of 1.5 N/mm2.

The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. If in doubt apply a test area first.

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Step no 2: 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 slowly and under mixing 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-2 must be thoroughly mixed using allow speed electric stirrer (300 -400 rpm) or other suitable equipment.

APPLICATION METHOD OF GRAIN FINISH SYSTEM

Primer:
If the substrate is porous, Apply Primer FloArm Primer 1260 to the prepared surface at an application rate in the range of 200 to 250 g/m² / coat. Actual quantity will depend on surface texture and porosity. Apply the second coat after 6-8 hours of the first coat at the same rate as mentioned above. Minimum two coats recommended.

Anti Slip Grains
Whilst primer is still wet, blind with Anti Slip Grains(0.3 to 0.5 mm) at an Estimated rate of 1 kg/m², leave to dry for 16 hours . Prior to the removal of excess Anti Slip Grains ensure that the grains are firmly embedded

Wear coat:
Apply first coat wear coat using FloArm DeckCoat PU-2 to the primed and Antislip Grains blinded surface at an application rate of 500 - 600 g/m² using flat trowel, rubber float, suitable roller or by brush. Second coat of FloArm Deck coat PU 2N apply 200 to 300 g/m^2 after drying of first coat.

UV Protection Top Coat :(Optional)
Apply protective Top Coat using FloArm DeckCoat PUD to the wear Coat at an application rate of 150 – 200 g/m² using coating roller.

Foot traffic: 36 hrs @ 27±1ºC
Vehicle traffic: 5 days @ 27±1ºC

NOTE: The application thickness of the complete CPS It would be in the range of 1.0 mm - 2.5 mm.

CHEMICAL RESISTANCE:
Above system is resistant to a wide range of chemicals like Petrol, Engine oil, Brake fluid, Mineral spirit, Diesel, Mild acids, Detergents etc

Waiting Time / Over coating: -
Before applying texture coat of FloArm DeckCoat PU-2 on primer coat of FloArm DeckCoat PU-2
Allow:

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

Curing:-
Loading or usage of FloArm DeckCoat PU-2 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.

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Technical Data

Appearance Base Hardener Filler Colour paste	Light viscous liquid Brown viscous liquid White colour powder As per our shade card
Mixed Density	1.30-1.40 kg/litre
Pot life	60 minutes @27^{0}C
Mixed Solid content	Approx. 85 %
Application Temperature	Min. approx. +15° C, Max. approx. +35° C
Appearance of dry film	Smooth to texture and eggshell matt .
Taber Abrasion Resistance ASTM D 4060 , 1000 cycles, 1 kgs wt.	Weight loss in mg, H10 = 62 mg CS17 = 165 mg
Bond strength @ 7 days at +27°C (ASTM D2240)	2.0 N/mm^2, (concrete failure)
Thermal Resistance Exposure *	Dry Heat Permanent +50 ^{0}C
Chemical Resistance ASTM D 1308	Resistance to many chemicals
Surface Spread of Flame, (BS 476: Part 7)	Class 2 (indicative)
Foot traffic after, at +27°C (ASTM C722)	Min. approx. 24 hours
Fully cured, after at +27°C (ASTM C 722)	Approx. 7 days
Initial Gloss	Semi Gloss finish
Skid Resistance-(BPN) (ASTM E303)	Dry >50 Wet >60
Water absorption (ASTM D 570 -98)	0 ML

No Simultanenous Chemical and Mechanical Exposure.

Consumption of grain finish system

Coating System	Consumption
Primer coat of with FloArm Primer 1260/1290	Approx. 0.200 - 0.250 kg/m2
Anti slip coat with FloArm Primer 1260 or 1290	Approx. 0.300 - 0.400 kg/m2
Sprinke 500 microns quarts sand (40 mesh) on wet to wet anti slip coat up to the rejection	Approx. 1 to 2.5 kg/m2
After 24 hrs remove loose sand by brooms or vacuum.	
First Sealer coat with FloArm DeckCoat PU-2	0.500 - 0.600 kg/m2
Second Sealer coat with FloArm DeckCoat PU-2	0.200 - 0.300 kg/m2

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-2 is available in 4.0 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 of specific storage advice please consult MYK Arment Technical Services Department.

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Health & Safety

FloArm DeckCoat PU 2 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-2 on substrates with rising moisture.
- Freshly applied FloArm DeckCoat PU-2 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 crack May lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure the FloArm DeckCoat PU-2 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.

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