

FloArm DeckCoat EPU

(Formerly known as MYK DECK COAT EPU 333)

4-Part solvent free hydrid Epoxy Textured Coating and Seal Coat for Car Parking Area and MLCPs



TECHNICAL DATA SHEET

Product Description

FloArm DeckCoat EPU is a four part, solvent free, colored, 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 wet or dry areas in utility areas.

Features and Benefits

- Slip resistant non-quartz finish
- Good abrasion resistant
- Good chemical resistance
- Easy and fast application
- Easy to clean
- Good chemical and mechanical resistance
- Easy application
- Economical
- liquid impermeable / waterproof
- Fuel resistant
- Anti-carbonation properties
- 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

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.

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Step no 2: Primer

FloArm Primer EP or FloArm Primer 1290 is the recommended primer for normal condition. Make sure that a continuous, pore free coat covers the substrate. Apply the primer by brush, trowel or roller.

Waiting Time / Overcoating

Before applying FloArm DeckCoat EPU on FloArm Primer or FloArm Primer 1290 allow:

Substrate temperature	Minimum	Maximum
+10°C	36 hours	6 days
+20°C	24 hours	4 days
+30°C	12 hours	2 days

Step no 3 : Product Mixing

Prior to mixing, stir part A mechanically. Add the part C: color paste into part A, Mixed properly, after that all of part B has been added to mixed material, then add filler under stirring mix continuously for 2 minutes until a uniform mix has been achieved. 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 EPU must be thoroughly mixed using allow speed electric stirrer (300 -400 rpm) or other suitable equipment.

Cleaning of Tools: -

Clean all tools and application equipment with FloArm Clean PU or suitable thinner immediately after use. Hardened and/or cured material can only be removed by mechanically.

Step no 4 : Product Application

Prior to application, confirm substrate moisture content, relative humidity and dew point. If > 4% moisture content, FloArm Primer Cempo series of products may be applied as a Temporary Moisture Barrier (TMB) system.

Coating

Application of the FloArm DeckCoat EPU is carried out in a single coat application. FloArm DeckCoat EPU is spread evenly using a serrated trowel(1mm/2mm 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!

Curing: -

Loading or usage of FloArm DeckCoat EPU 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	7 Days
+20°C	5 Days
+35°C	4 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	Off white Color high viscous liquid Yellowish to brown viscous liquid
Color paste		As per our shade card
Mixed Density		Approx. 1.47 kg/litre
Pot life @27°C		25 minutes
Appearance of dry film		Smooth to texture
Compressive Strength @7day		50 N/mm2
Flexural Strength @7day		33 N/mm2
Tensile Strength @7day		20 N/mm2
Pull out bond strength @7day		>1.5 N/mm2, concrete failure
% elongation at break 1 mm film		Min 8%

Mechanical / Physical Properties:

- Abrasion Resistance - Max loss in weight 40.0 mg/300cycles (According to ASTM D 4060)
- Resistance Chemical Resistance Resistant to many chemicals.
Please ask for a detailed chemical resistance table.
- Thermal Resistance Exposure
- Dry heat Permanent+50°C: -

Following values observed in laboratory cleaned		
Surface condition and Humidity @ 50% , Temp 30°C		
1	Gloss at 60°, 1 Day, as per AS TM D 2457	16
2	SKID Resistance on A Clean dry surface As per ASTM E303	44

Consumption

Coating System – Single Coat	Consumption
Primer (FloArm Primer EP) / FloArm Primer EP 1290	Approx. 0.350 kg/m2
Texture Coat with FloArm DeckCoat EPU :	Approx. 0.70 to 1.0kg/m2
System thickness (ground to crest)	From 1.5 mm to 2mm

*For textured coating DFT will not be uniform at all everyplace due to texture effect.

For roughly finished base concrete slab, the consumption of the primer would be approx.0.2 to 0.5kgs/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 EPU is available in 6.5 Kgs

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 consult MYK Arment technical Services Department.

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Precaution and limitation:

- Do not apply FloArm DeckCoat EPU on substrates with rising moisture.
- Freshly applied FloArm DeckCoat EPU 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 EPU 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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