

# FloArm DeckCoat M

(Formerly known as MYK DECK COAT M)

3-Part Epoxy Textured Coating and Seal Coat for Car Parking Area and MLCPs



## TECHNICAL DATA SHEET

### Product Description

FloArm DeckCoat M is a three-part, low solvent containing colored Epoxy resin-based anti-slip coating with thixotropic properties specially formulated for application in Car Parks. The system covers roof top parking, intermediate tiers, lower basements and ramps.

#### Uses

- Slip resistant flooring for multi-storied and underground car parks
- Slip resistant coating for concrete and cement screeds
- Due to its better light refractivity, it enhances the aesthetics of the car park area and reduces power consumption due to higher lux value
- Lower tyre noise
- Considerably reduces building slab weight and makes the surface water tight
- Full system available i.e., signages, line marking and coving/skirting
- Also used in the prevention of carbon emission attack
- Can be used for processing areas in commercial establishments

#### Features and Benefits

- Slip resistant non-quartz finish
- Good abrasion resistant
- Easy and fast application
- Easy to clean
- Excellent adhesion to substrate
- Good chemical and mechanical resistance
- Affordable
- Impermeable / watertight
- 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
- 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/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>. 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.

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. Repairs (blow holes/voids and surface leveling/defects) to the substrate must be carried out using appropriate repair products. 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.

Ensure moisture content of the concrete surface below 4% - no rising moisture according to ASTM D 4263 (Polythene Sheet Method) and above 3<sup>0</sup>C dew point.

#### Step no.2: Priming

The concrete surface after proper and thorough surface preparation has to be primed with appropriate primer (FloArm Primer 1260 or 1290). The primer is a solvent free resin system. It is designed for better adhesion with the substrate and the flooring system. The primer should be mixed in the given proportions supplied. The entire contents of the hardener should be poured into the base and should be mixed using a low speed drill machine with an attachment for about 3 minutes @ (150-200 RPM) to get a homogeneous mix. Once mixed, the primer should be applied immediately on to the prepared concrete surface. After priming, the surface has to be kept for drying - approximately 8-12 hrs. For more information refer Primer TDS. Depending on the ambient temperature, application of FloArm DeckCoat M can be undertaken.

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#### Priming for Damp Concrete/Rising moisture:

Normal priming is limited to application below 4% surface moisture in concrete. If the moisture content is > 4%, use special primer, FloArm Primer 1250.

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

#### Step no.3: Product Mixing

The pre-weighed packs of the components - resin, hardener and pigment has to be mixed for 2 to 3 minutes using a low speed electric stirrer (300 -400 rpm) with a spiral shaped stirrer. Prior to mixing, stir base part mechanically. Pour base part into clean container, then add colour paste into base, mix for 1 minutes to produce uniform colour, then add hardener part into mixed material. Mix it for 2 -3 minutes with slow speed until a uniform and lump free 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.

#### Step no.4: Product Application

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

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

FloArm DeckCoat M once mixed should be used within its specified pot life; the material is to be applied in a single coat application on to the primed surface and evenly using a serrated trowel (0.5 mm Notch). Roll the material evenly with a textured roller within 5 minutes of spreading of material.

Freshly applied FloArm DeckCoat M must be protected from dampness, condensation and water for at least 24 hours.

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 M in each area is applied from the same control batch numbers of colour paste.

#### Technical Data

Base	Off White Colour viscous liquid
Hardener	Yellowish to brown viscous liquid
Liquid Colour paste	As per MYK Shade card
Mixed Density	Approx. 1.60 ± 0.02 g/cm <sup>3</sup>
Mixed Solid content	Approx 87%
Pot life, at +27° C	Approx. 30 minutes
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 <sup>2</sup> (concrete failure)

#### Mechanical / Physical Properties:

Taber Abrasion resistance (1000g, 1000 cycles) (ASTM D4060)	Wheel weight loss, mg CS17 Wheel – 147 H-10 Wheel – 116
Chemical resistance* (ASTM E303)	Resistant to many chemicals
Thermal resistance Exposure**	Dry heat pretreatment +50° C

#### Physical Properties on clean surface Humidity @ 50% , Temp 30 Deg C

Gloss at 60 Deg, 1 Day (ASTM D 2457)	9
Skid Resistance (ASTM E303)	46

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#### Cleaning of Tools:

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

#### Waiting Time:

Before applying FloArm DeckCoat M on FloArm Primer 1260 or FloArm Primer 1290 the waiting time should be as follows:

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

#### Curing:

Vehicular movement on FloArm Deck Coat M should be allowed ideally after 7 days of application, depending upon the ambient temperature & humidity, however, the minimum time required for gaining strength is as follows:

Substrate temperature	Minimum
+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.

#### Consumption

Coating System—Single Coat	Consumption
Primer (FloArm Primer 1260) / FloArm Primer 1290	Approx. 0.200-0.400 kg/m <sup>2</sup>
Texture Coat with FloArm DeckCoat M	Approx. 0.70 to 0.80 kg/ m <sup>2</sup>

#### Note:

The given information is as per controlled conditions. It is recommended to do a field trial to ascertain actual consumption and methodology prior to large scale application.

Consult the MYK Arment Technical Services team for product specification or any other guidance.

DFT will not be uniform at all places due to textured effect.

For roughly finished base concrete slab, the consumption of the primer would be approx. 0.2 to 0.5kgs/m<sup>2</sup> extra. A trial patch is suggested to assess correct consumption.

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### Packaging

FloArm DeckCoat M is available in 6.250 Kgs composite kit pack (B+H+CP). Recommended consumption may vary as per the surface conditions.

### 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.

### Health & Safety

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO<sub>2</sub> and water vapour which may adversely affect the finish. For heating use only, electric powered hot air blower systems.

FloArm DeckCoat M should be applied with gloves and care should be taken to see that it does not fall on skin or eyes. Safety goggles to be worn during application. Splashes on to eyes have to be immediately washed with plenty of clean water and medical advice has to be taken.

### 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.