

FloArm CE 103

(Formerly known as MYK INDUFLOOR CE 103)

3 – part Modified epoxy based motor for self-smoothing floor screeds of 2 o 3 mm



TECHNICAL DATA SHEET

Product Description

FloArm CE 103 is a three parts, fine textured self smoothing underlay and leveling screed.

Uses

As a self-smoothing screed for:
Leveling layer under Epoxy, Polyurethane and PMMA floor coatings / Screeds, tiles, sheet floors, carpets or wooden floors .

Features and Benefits

- Economical
- Fast and easy application
- Good self-leveling property
- Mild chemical resistant
- Good early and final mechanical strengths
- Ideal preparation for smooth surface finishes
- Provides durable underlay for resin treatment
- Contains no solvents
- Low VOC

Application Methodology

Substrate Quality:

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².

The substrate can be damp but must be free of standing water and free of all contaminants such as oil grease, coatings and surface treatments etc.

If in doubt, apply a test area first

Step no 1: Substrate Preparation:

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying 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 product Range

High spots can be removed by grinding.

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

Application Conditions / Limitations:

Substrate Temperature	+15°C min. / +30°C max.
Ambient Temperature	+15°C min. / +30°C max.
Substrate for new concrete	28 days full cured substrate
Substrate conditioning before application	Require to make SSD with water
Relative Air Humidity	70% max.
Dew Point	Beware of condensation!

The substrate and uncured floor temperature must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the floor finish.

Step no 2: Priming

SSD concrete substrate to be primed with FloArm Primer EPW -44 just before application of FloArm CE 103 (wet on wet)

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Step no 3: Application Instructions - Mixing Time:

Prior to mixing, shake Base and Hardener, add the base into hardener container shake well until homogenous, then pour both parts into the mixing container and mix thoroughly for 2 minutes mass until a uniform mix has been achieved. Gradually add Filler while stirring with a power mixer. Mix thoroughly for 3 minutes until uniform mix has been achieved.

Mixing Tools:

Mix using a slow speed electric mixer (300 - 400 rpm) with helical paddle or other suitable equipment. Recommended are single or counter rotating double mortar (basket type) and forced action (pan type) mixers. Free fall mixers must not be used. Recommended is single or counter rotating double mortar (basket type) and forced action (pan type) mixers. Free fall mixers must not be used.

Step no 4: Application Method / Tools:

Place mixed FloArm CE 103 onto the primed Substrate and spread evenly to the required thickness uniformly with a metal trowel or spatula and immediately roll with a spike roller to remove Entrapped air and obtain an even thickness layer.

Do not use additional water, which would disturb the Surface finish and cause discoloration.

A seamless finish can be achieved if a 'wet' edge is maintained during application.

Cleaning of Tools:

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

Cleaning / Maintenance Methods:

Due to the texture of its surface, FloArm CE 103 is not suitable to be used as wearing layer where easy staining can occur. A seal coat of the MYK Floor range with suitable cleaning capabilities is advisable. Remove dirt using a brush and/or vacuum. Do not use wet cleaning methods until the product is fully cured. Do not use abrasive methods or cleaners.

System Information:

Underlay / leveling screed for medium substrate roughness:

Layer thickness: 2.0 - 3.0 mm

Primer: FloArm Primer EPW -44

Screed: FloArm CE 103

Intermediate Priming: Priming the underlayment screed with FloArm Primer 1290

Topping: MYKA FloArm range for 1mm and above thickness

Application Details:

Consumption/Dosage

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, in level or wastage, etc.

Coating System	Product	Consumption
Primer	FloArm Primer EPW -44	0.20 – 0.25 kg/m ²
Underlay/levelling screed	FloArm CE 103	2.3kg/mm/m ²
Intermediate Primer	FloArm Primer 1290	Approx. 150 gms/m ²
Topping (optional)	MYKA FloArm Range	As per TDS

Waiting Time / Over Coating:

Before applying FloArm CE 103 on FloArm Primer EPW -44 Primer allow:

Substrate temperature	Waiting time*	
	Minimum	Maximum
+ 15°C	1 hours	2 hours
+ 20°C	30 minutes	2 hours
+ 30°C	30 minutes	1 hours

*ESTIMATED. Ideal application is while primer is in a wet to tacky condition.

NOTE: FloArm CE 103 must be over coated with vapour tight coatings when the surface moisture falls below 4% or less

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TECHNICAL DATA SHEET

Substrate temperature	waiting time*
+15°C	72 hrs
+20°C	60 hrs
+30°C	48 hrs

*ESTIMATED Warning: Please check actual surface Moisture before application of subsequent resin System.

Note: Successive coats of FloArm CE 103 must be applied after priming with FloArm Primer EPW 44 Primer and allowing at least the minimum period indicated above between applications.

Times are approximate at 75% r.h. and will be affected by changing ambient and substrate conditions, particularly temperature and relative humidity.

Notes on Application / Limitations:

Always ensure good ventilation when using FloArm CE 103 in a confined space to remove excess moisture. Freshly applied FloArm CE 103 must be protected from damp, condensation and water for at least 36 hours. Prevent premature drying by protecting from strong wind and do not expose to direct sunlight while fresh. Apply primer and FloArm CE 103 on a falling temperature. If applied during rising temperatures “pin holing” can occur.

Under no circumstances add water to the mix.

Non moving construction joints require pre-treatment using MYKA Repair material. Dynamic cracks (> 0.4 mm) and moving joints need to be assessed on site can be treated with an elastic sealing material of the SealArm Tape. The incorrect assessment and treatment of cracks can lead to a reduced service life and reflective cracking. Colour variations can occur on unsealed FloArm CE 103 through exposure to direct sun light. This however, will not adversely influence the mechanical properties.

When overlaying with PMMA screeds, the surface of FloArm CE 103 must be fully broadcast with sand 0.4 -0.7 mm

Temperature	Foot traffic	Light traffic	Full cure
+10°C	~ 72 hours	~ 5 days	~ 28 days
+20°C	~ 60 hours	~ 3 days	~ 28 days
+30°C	~ 48 hours	~ 60 hours	~ 28 days

Note: Times are approximate and will be affected by changing ambient and substrate conditions

Technical Data

Appearance of components:	
Part A - Resin	Emulsion White liquid
Part B - Hardener	Translucent clear liquid
Part C - Filler	Cream yellow, powder
Mixed colour	Creamish yellow
Mixed Density	2.3 kg/l (at +20°C)
Layer Thickness	2.0 - 3.0 mm
Pot life Temperature/R.H. 75%	Time
+15°C	~ 40
+20°C	~ 20
+30°C	~ 10
Finish	Fine textured, matt
Max. Fire Rating (EN 13501-1)	Class A2
Service Temperature	0°C to +60°C for continuous exposure
Compressive Strength (28 days / +30°C) (According to IS 9162-1979)	50 N/mm ²
Flexural Strength (28 days / +27°C) (According to IS 9162-1979)	15 N/mm ²
Bond Strength (failure in concrete) (According to ASTM D 4541)	> 1.5 N/mm ²
Abrasion Resistance (According to IS 1237 – 1980 and IS 9162 - 1979)	0.7 mm thickness loss

Chemical Resistance:

The FloArm CE 103 has improved chemical resistance over plain concrete in aggressive environments, but is not designed as a chemical protection. For specific chemical resistance, always overcoat with a suitable product of the MYK range. For occasional exposure or spillages, please consult MYK Arment.

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Packaging

Available in 35 kg composite kit pack

Storage and Shelf Life

6 months in unopened original sealed containers stored in dry warehouse conditions (+5°C to +25°C).

Health & Safety

Use appropriate protective equipments like hand gloves/ goggles etc during opening /mixing and application. Any splashes should be washed off with water. If contact with eyes occurs, wash immediately with water and seek medical advice.



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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.

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