

FloArm Top SL 501

(Formerly known as MYK INDUFLOOR SL 501)

Multi-component, solvent free, Epoxy resin based Self - Smoothing floor topping with a thickness of 1.0mm



TECHNICAL DATA SHEET

Product Description

FloArm Top SL 501 is a 100 % solid containing free flowing, four component solvent free system in pre-weighed packing for on-site mixing. The finished floor provides a hard wearing, smooth, glossy, joint free, impervious and easy to clean treated surface. Additionally, it has mild chemical and alkali resistance. The system thickness is approx 1 mm.

FloArm Top SL 501 is a blend of epoxy resin system available in various colors. It is designed for use in a wide range of industrial environments where durable, joint free, low maintenance flooring is required.

Uses

- Engineering & Auto industries
- Clean rooms, Laboratories & Hospitals
- Electronic Handling & Manufacturing unit
- Pharmaceutical – Bulk and Formulation
- Computer assembly units
- IT and other Commercial Buildings
- Explosive industries or Flammable material storage areas

Features and Benefits

- Durable, provides a hard, impact and abrasion resistant floor topping
- Good resistance to wide range of chemicals
- Hygienic seamless floor which is easy to clean
- Available in wide range of colors
- Quick and Easy to apply
- Decreased Friction and static charge formation
- Does not support growth of bacteria and fungus
- Impervious

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 for a durable and lasting flooring. 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 relay on floor coating that has a firm bond (pull out strength of 1.5 N/mm²).

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 repair product. The concrete or screed substrate has to be primed or leveled in order to achieve an even surface. High spots must 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 and/or vacuum.

Ensure moisture content of the concrete surface is below 4% - no rising moisture according to ASTM D 4263 (Polythene sheet) and above 3°C dew point.

Step no.2: Priming

The concrete surface after proper and thorough surface preparation has to be primed with 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. Depending on the ambient temperature before proceed to lay FloArm Top SL 501.

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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 more, special primers for damp moist floors have to be applied. MYK arment special primers FloArm Primer 1250 or moisture barrier such as the Cempo® series of products are recommended. Consult the Technical Services team of MYK arment for product specification or guidance

Step no. 3: Product Mixing

The pre-weighed packs of the components - resin, hardener, filler 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. The components should be mixed in a suitably sized mixing vessel. The pigment should be added to the base and should be stirred for 30seconds till proper dispersion of pigment paste in base happens. The hardener is then added to the base and mixed for about 3 to 4 minutes slowly until an even color, texture is obtained. Add the filler slowly into the mixing container, ensure stirring while pouring. Mix for another 2 – 3 mins till the product is homogeneous.

Important: Do not dump the powder component all at once. Mix till the material is completely homogeneous. Mix only that much quantity that could be finished in the stipulated pot life. We are not recommending part mixing, unless under expert supervision.

Step no.4: Product application

The material once mixed should be used within its specified pot life; the material is poured on to the primed surface and spread evenly to the required thickness with a 2mm 'V' notched steel trowel. Care should be taken not to over work the resin. After spreading, the wet epoxy should be firmly rolled with a spiked nylon roller to help release any entrapped air in the material and assist leveling and removing any tool marks. The rolling should be carried out using a 'back and forth' technique along the same path. An overlap of 50% with adjacent paths is recommended.

Ideal application temperature should be between 23°C to 30°C. Please consult MYK Arment Engineer if the temperatures are different than specified.

Note:

The above information is theoretical and does not allow for any additional material due to surface porosity, surface profile variations in level and wastage etc. It is always recommended to do a field trial prior to large scale application.



TECHNICAL DATA SHEET

Technical Data

Mixed Density	Approx. 1.48 gm/cc
Shore D hardness After 7 Days at 30°C (ASTM D 2240)	60 - 70
Pot Life	Approx. 30 Mins @ 30°C Approx. 50 Mins @ 20°C
Foot Traffic (ASTM C 722)	24 Hours @ 30°C 48 Hours @ 25°C
Vehicular traffic (ASTM C 722)	72 Hrs. @ 30°C
Abrasion Resistance (IS 1237)	0.35 mm loss
Chemical Resistance: (ASTM C 722 spot)	7 Days @ 30°C
Full Cure (ASTM C 722)	7 days @ 30°C
Compressive strength After 14 days (IS 9162)	> 65N/mm2 @ 30°C
Flexural Strength After 14 days (IS 9162)	>45 N/mm2 @ 30°C
Tensile Strength After 14 days (IS 9162)	>16 N/mm2 @ 30°C
Thermal Resistance - Exposure - Permanent	- Dry heat - +50°C

Physical Properties on clean surface Humidity @ 50% , Temp 30 Deg C	
Gloss at 60 Deg, 1 Day (ASTM D 2457)	76
Skid Resistance (ASTM E303)	50



Flooring & Coatings

FloArm Top SL 501

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Multi-component, solvent free, Epoxy resin based Self - Smoothing floor topping with a thickness of 1.0mm

Consumption

15.8 sqm @ 1mm thickness for a pack of 23.5 kgs.
Recommended consumption may vary as per the surface conditions.

Packaging

23.5 kgs composite pack.

Storage and Shelf Life

12 months from date of production if stored properly in cool dry place under shaded area, away from any extreme temperature or direct sunlight.

Health & Safety

FloArm Top SL 501 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.



TECHNICAL DATA SHEET

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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FloArm Top SL 502

(Formerly known as MYK INDUFLOOR SL 502)

Multi-component, solvent free, Epoxy resin based Self Smoothing floor topping with a thickness of 2.0mm



TECHNICAL DATA SHEET

Product Description

FloArm Top SL 502 is a 100 % solid containing free flowing, four component solvent free system in pre-weighed packing for on-site mixing. The finished floor provides a hard wearing, smooth, glossy, joint free, impervious and easy to clean treated surface. Additionally, it has mild chemical and alkali resistance. The system thickness is approx 2 mm.

FloArm Top SL 502 is a blend of epoxy resin system available in various colors. It is designed for use in a wide range of industrial environments where durable, joint free, low maintenance flooring is required.

Uses

- Engineering & Auto industries
- Clean rooms, Laboratories & Hospitals
- Electronic Handling & Manufacturing unit
- Pharmaceutical – Bulk and Formulation
- Computer assembly units
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- Explosive industries or Flammable material storage areas

Features and Benefits

- Durable, provides a hard, impact and abrasion resistant floor topping
- Good resistance to wide range of chemicals
- Hygienic seamless floor which is easy to clean
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- Impervious

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 for a durable and lasting flooring. 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 relay on floor coating that has a firm bond (pull out strength of 1.5 N/mm²).

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 repair product. The concrete or screed substrate has to be primed or leveled in order to achieve an even surface. High spots must 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 and/or vacuum.

Ensure moisture content of the concrete surface is below 4% - no rising moisture according to ASTM D 4263 (Polythene sheet) and above 3°C dew point.

Step no.2: Priming

The concrete surface after proper and thorough surface preparation has to be primed with 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. Depending on the ambient temperature before proceed to lay FloArm Top SL 502.



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Multi-component, solvent free, Epoxy resin based Self Smoothing floor topping with a thickness of 2.0mm



TECHNICAL DATA SHEET

Priming for Damp Concrete/Rising moisture:

Normal priming is limited to application below 4% surface moisture in concrete. If the moisture content is more, special primers for damp moist floors have to be applied. MYK arment special primers FloArm Primer 1250 or moisture barrier such as the Cempo® series of products are recommended. Consult the Technical Services team of MYK arment for product specification or guidance

Step no. 3: Product Mixing

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Important: Do not dump the powder component all at once. Mix till the material is completely homogeneous. Mix only that much quantity that could be finished in the stipulated pot life. We are not recommending part mixing, unless under expert supervision.

Step no.4: Product application

The material once mixed should be used within its specified pot life; the material is poured on to the primed surface and spread evenly to the required thickness with a 2mm 'V' notched steel trowel. Care should be taken not to over work the resin. After spreading, the wet epoxy should be firmly rolled with a spiked nylon roller to help release any entrapped air in the material and assist leveling and removing any tool marks. The rolling should be carried out using a 'back and forth' technique along the same path. An overlap of 50% with adjacent paths is recommended.

Ideal application temperature should be between 23°C to 30°C. Please consult MYK Arment Engineer if the temperatures are different than specified.

Note:

The above information is theoretical and does not allow for any additional material due to surface porosity, surface profile variations in level and wastage etc. It is always recommended to do a field trial prior to large scale application.

Technical Data

Mixed Density	Approx. 1.57 gm/cc
Shore D hardness After 7 Days at 30°C (ASTM D 2240)	60 - 70
Pot Life	Approx.25 Mins @ 30°C Approx.45 Mins @ 20°C
Foot Traffic (ASTM C 722)	24 Hours @ 30°C 48 Hours @ 25°C
Vehicular traffic (ASTM C 722)	72 Hrs. @ 30°C
Abrasion Resistance (IS 1237)	0.35 mm loss
Chemical Resistance: (ASTM C 722 spot)	7 Days @ 30°C
Full Cure (ASTM C 722)	7 days @ 30°C
Compressive strength After 14 days (IS 9162)	> 65N/mm2 @ 30°C
Flexural Strength After 14 days (IS 9162)	>45 N/mm2 @ 30°C
Tensile Strength After 14 days (IS 9162)	>16 N/mm2 @ 30°C
Thermal Resistance - Exposure - Permanent	- Dry heat - +50°C

Physical Properties on clean surface Humidity @ 50% , Temp 30 Deg C	
Gloss at 60 Deg, 1 Day (ASTM D 2457)	70
Skid Resistance (ASTM E303)	57



Flooring & Coatings

FloArm Top SL 502

(Formerly known as MYK INDUFLOOR SL 502)

Multi-component, solvent free, Epoxy resin based Self Smoothing floor topping with a thickness of 2.0mm

Consumption

8.4 sqm @ 2mm thickness for a pack of 26.5 kgs.
Recommended consumption may vary as per the surface conditions.

Packaging

26.5 kgs composite pack.

Storage and Shelf Life

12 months from date of production if stored properly in cool dry place under shaded area, away from any extreme temperature or direct sunlight.

Health & Safety

FloArm Top SL 502 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.



TECHNICAL DATA SHEET

Product Categories Available



Legal Note

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FloArm Top SL500

(Formerly known as MYK INDUFLOOR® - SL 500)

High Build Solvent free Epoxy Self smoothing Floor coat



TECHNICAL DATA SHEET

Product Description

FloArm Top SL 500 is a four component colored, self-smoothing epoxy floor coating capable of being laid between 0.5mm to 0.75 mm in a single application.

Uses

For use on industrial and commercial concrete floors where a smooth easily cleaned surface is required. Typical areas of use include:

- Food / beverage processing areas,
- Pharma / clean rooms
- Laboratories, / Instrumentation
- Hospitals
- Electronic Manufacturing /Assembling
- Light duty manufacturing areas.

Features and Benefits

- Hygienic - Provides easy to clean dust free surfaces
- Chemical resistant - Protects the concrete floor surface when exposed to mild acid or alkalis
- Solvent free - Low odour formulation
- Hardwearing - Good abrasion resistance
- Quick to lay – Lower down time
- Aesthetic – Smooth glossy finish (depends on surface smoothness and profile)
- Impervious – Stain resistant

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 re moved 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.

Ensure moisture content of the concrete surface below 4% - no rising moisture according to ASTM D 4263 (Polythene Sheet Method) and above 3°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 Top SL 500 can be undertaken.

FloArm Top SL500

(Formerly known as MYK INDUFLOOR® - SL 500)

High Build Solvent free Epoxy Self smoothing Floor coat

Step no.3: Product Mixing

Proper mixing of the components is essential. Base, Hardener, filler and Colour paste are supplied in a predetermined mixing ratio. The resin should be stirred well before mixing with the color paste. Detain the Colour paste component into Base component. Ensure that the Colorcast Drains completely from its container and mix for 30Sec with low speed mechanical drill with paddle till homogeneous mass is obtained. Add the hardener into the Resin and mix with slow speed mechanical drill with a stirrer for 2 to 3 Minutes until homogeneous mass is obtained, Finally add the filler component in to the mixed mass slowly under constant stirring. Mixing of the components is to be carried out with a suitable mixer at approx. 300 rpm (e.g. drill with paddle). It is important to also stir from the sides and the bottom to ensure that the hardener is evenly dispersed. Stir until the mix is homogenous (free from striations); mixing time approx. 3 minutes.

Note

For better finish of the top coat, sieve the mixed material with 80 mesh nylon cloth. The minimum temperature during mixing should be +20°C. Do not use mixed material directly from the packaging. Decant the material into a clean container and mix thoroughly once again. If outside temp. is low, then keep the all the material under the temp. Controlled room having facility of room heater

Step no.4 : Product Application

FloArm Top SL500 is a very fluid material and care must be taken to tape around the edges of the floor with a good quality tape ensuring that is firmly bonded to the floor. Apply the coating using a 1 mm V Notch trowel to the required final thickness.

Rolling

Once layer roll the coating with a spiked nylon roller (with pointed ended tip) . This assists in removing the mixing air the products surface and removing any entrained air pockets.

Precautions

Temperature Limitations

Minimum application temperature 15°C at temperatures below 15°C and over 40°C, please contact MYK arment technical department.



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Technical Data

Component	Basis: 4-components
Colour	As per shade card
Mixed Density	Approx. 1.37 g/ml at 27°C
Pot life	20 min. at 25°C
Minimum cure temperature	+12°C
Relative humidity at the time of application	<75%
Full Cure (ASTM C 722)	7 days @ 30°C
Compressive strength After 7 days (IS 9162)	At +30°C Approx 50 N/mm ²

Consumption

FloArm Top SL500 Theoretical coverage approx 13 m² per pack of 9kgs at 500 microns thickness.

Actual thickness will depend on the surface insulation and smoothness.

FloArm Top SL500

(Formerly known as MYK INDUFLOOR® - SL 500)

High Build Solvent free Epoxy Self smoothing Floor coat

Packaging

9 kg of composite pack (4 components)

Storage and Shelf Life

Up to 12 months if stored in unopened containers, in dry and shaded area.

Health & Safety

Safety Precautions:

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and food stuffs (which can also be tainted with vapour until product is fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use.

FloArm Top SL 500 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.



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Product Categories Available



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