Product Data Sheet

ASMACO FLOOR FC 160 CP

High-build solvent free epoxy coating for anti-slip traffic & parking deck protection.

DESCRIPTION:

ASMACO FLOOR FC 160 CP is a solvent-free epoxy coating multi component system designed for specific applications where durability and safety are paramount. Its range of thickness, solvent-free nature, and ability to create a profiled finish make it a suitable choice for basement, ground floor, podium car parks and intermediate traffic decks with low structural movement.



KEY PERFORMANCE PROPERTIES

- Durable, low maintenance costs.
- Solvent free - no odour during application.
- Slip resistant - different textures available to suit conditions to avoid slipping. working environment and identify slip hazard areas.
- Specially formulated for use in hot & tropical & cold conditions.
- Seamless coating for concrete to protect against vehicle related spillages such as common oils, greases, lubricants, aviation fuels or AC fluid.

AREAS OF APPLICATION

- **ASMACO FLOOR FC 160 CP** is easy to apply, cost effective and particularly, Designed for a wide range of floors with various levels of mechanical and chemical exposure,
- Car Parking
- Garages,
- Aircraft hangars and maintenance areas
- Car workshops
- Traffic decking
- Pedestrian walkways

METHOD OF APPLICATION

ASMACO FLOOR FC 160 CP The long term durability of any resin floor system is determined by the adhesive bond achieved between the flooring material and the substrate. It is most important therefore that substrates are correctly prepared prior to application.

New Concrete Floors:

These should normally have been placed for at least 28 days and have a moisture content of less than 5%. Floors should be sound and free from contamination such as oil and grease, mortar and paint splashes or curing compound residues. Excess laitance deposits are best removed by light mechanical scabbling, grinding or grit/captive blasting followed by vacuum cleaning to remove dust debris.

Old Concrete Floors:

A sound, clean substrate is essential to achieve maximum adhesion. As for new concrete floors dry removal of laitance deposits are best removed by light mechanical scabbling, grinding or grit/captive blasting. Oil and grease penetration should be removed using a proprietary chemical degreaser or by hot compressed air treatment.

Any damaged areas or surface irregularities should be repaired using epoxy repair mortar **ASMACO POXY 90 FC.**

Priming:

Priming is not normally required provided the substrate is sound, untreated, and good quality nonporous concrete. If any doubts exist of the quality of the concrete, or if it is porous, it should be primed with **ASMACO FLOOR PRIME P2.**

ASMACO FLOOR PRIME P2 should be mixed in the proportions supplied. Add the entire contents of the hardener cane to the base cane. When thoroughly mixed, preferably using a slow speed drill and paddle, the primer should be applied in a thin continuous film, using rollers or stiff brushes. Apply the primer well into the surface of the concrete taking care to avoid ponding or over application. The primer should be left to achieve a tack-free condition before applying the topcoat. A second coat of primer may be required if the substrate is excessively porous.

Mixing the ASMACO FLOOR FC 160 CP

Pre-mixing Base (Part A): Before mixing, thoroughly stir the Base (Part A) component. If the material has been stored for a long period, some solid content may have settled at the bottom of the container. Pre-mix until a completely homogeneous consistency is achieved.

Adding Colour Paste: Add the full 2.3 kg of colour paste into the 21.80 kg pack of Base (Part A). Mix thoroughly to ensure the colour is evenly dispersed throughout the base.

Adding Hardener (Part B): After the colour paste is fully incorporated, add the entire contents of Hardener (Part B) into the mixed Base (Part A). Mix continuously for at least 3 minutes until a uniform mixture is achieved.

Mixing Equipment: It is recommended to use a heavy-duty, slow-speed, flameproof or air-driven drill fitted with an MR3 mixing paddle.

Always mix the components in the supplied quantities and ensure that all containers are completely scraped to avoid material loss or incorrect mixing ratios.

Important Note: Do not add any solvent or thinner at any stage. This is a 100% solid epoxy system. Adding solvents will cause segregation during application, resulting in spotting, patchiness, and an unacceptable finish.

Standard Application of ASMACO FLOOR FC 160 CP for Anti Slip Finish:

The first coat of **ASMACO FLOOR FC 160 CP** should be applied on primed surface by using a good quality medium haired pile roller, suitable for epoxy application, or squeegee to achieve a continuous coating. Ensure that loose hairs on the roller are removed before use. A minimum film thickness of 250 microns should be applied. This can be increased where specifications demand. Toss the anti-slip grain when the base coat has in wet formation prior reached initial cure (12 hours @ 20°C or 5 hours at 35°C). Remove all loose ant-slip grain prior to start the topcoat application, applied by medium haired roller, at minimum film thickness of 250 microns. Care should be taken to ensure that a continuous film on anti-slip grain is achieved.

Anti-slip Application:

Slip resistant texture, the base coat shall be applied as per the standard application, but at a minimum film thickness of 250 microns. The base coat should then be dressed in the chosen **ASMACO FLOOR ANTISLIP GRAIN**. can be broadcast in a light random dressing to provide a less dense finish. When the base coat has reached initial cure (12 hours @ 20°C or 5 hours at 35°C), the excess aggregate should be vacuum cleaned from the surface.

The topcoat can now be applied by medium haired roller, at a rate of 2.0 m^2/Kg. Care should be taken to ensure that a continuous film is achieved and the rough surface, caused by the aggregate, is completely sealed. This topcoat must be applied within 36 hours @ 20°C / 15 hours @ 35°C of the application of the first coat.

Traffic marking lines may be applied using **ASMACO FLOOR LM 15** Traffic Line Marking Paint (TLMP) after five days from application of Car parking flooring.

Expansion joints

Expansion joints in the existing substrate must be retained and continued through the **ASMACO FLOOR FC 160 CP** topping. ANCHOR ALLIED FACTORY has a range of joint sealants specifically designed for flooring, apply pouring grade polysulphide sealant **ANCHORSEAL 963 PG / ANCHOR PRIME P1** contact local ANCHOR ALLIED technical department for advice.

Cleaning

Tools and equipment should be cleaned with **ASMACO CLEANER 2** immediately after use. Spillages should be absorbed with sand or sawdust and disposed of in accordance with local regulations.

CLEAN UP

Spillages of component products should be absorbed on to earth, sand, or other inert material and transferred to a suitable vessel. Disposal of such spillages or empty packing should be in accordance with local waste disposal regulations.

HEALTH & SAFETY

ASMACO FLOOR FC160 CP, ASMACO FLOOR PRIME P2 and ASMACO CLEANER 2 should not come in contact with skin and eyes or be swallowed. Avoid prolonged inhalation of solvent vapours.

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Safety Data Sheet and the container(s) and should not be used without reference to the Safety Data Sheet (SDS). All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards, and regulations.

Industrial Skin Cleanser, followed by washing with soap. Should accidental eye contamination occur, wash well with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting.

Fire

ASMACOFLOOR PRIME P2 and ASMACO CLEANER 2 are flammable. Do not expose to naked flames or other source of ignition. No smoking during use. Containers should be tightly sealed when not in use. In the event of a fire, extinguish with CO_2 or foam.

STORAGE, SHELF LIFE & HANDLING

ASMACO FLOOR FC 160 CP is temperature sensitive and should be stored in a cool, dry, and covered area, protected from direct sunlight, heat sources, and excessive ambient temperatures. Prolonged exposure to elevated temperatures, including storage in shaded but excessively hot areas, may accelerate product ageing, reduce the stated shelf life, and adversely affect application and performance characteristics.

In hot climatic conditions, **ASMACO FLOOR FC 160 CP** must be stored at temperatures below 30°C. Avoid prolonged exposure to extreme temperature fluctuations during storage and transportation.

When stored in its original, unopened packaging under the recommended temperature conditions, the product has a shelf life of up to 12 months from the date of manufacture.

Stock should be managed and consumed on a **First-In, First-Out (FIFO)** basis to ensure optimum shelf life and consistent product performance.

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QUALITY & CARE

All products originating from **ANCHOR ALLIED FACTORY** LLC Sharjah, UAE. facility is manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001, ISO 45001 and ISO 50001.

PACKAGING

ASMACO FLOOR PRIME P2 - SF:	4.00 Kg Set
ASMACO FLOOR FC 160 CP	
ASMACO FLOOR FC160 CP:	27.50 Kg Set
PART A:	21.80 Kg
PART B:	3.40 Kg
ASMACO FLOOR COLOR PASTE:	2.30 Kg
ASMACO FLOOR ANTISLIP GRAIN:	20 kg bags
ASMACO CLEANER 2:	5 Litre Cans
ASMACO FLOOR UV 2:	22.50 Kg Set
ASMACO POXY 90 FC:	6.00 kg Set

COVERAGE RATE AT DIFFERENT TEXTURE

- **COVERAGE FOR ANTI SLIP VERY FINE TEXTURE:**

ASMACO FLOOR PRIME P2:	8 m² / Kg
ASMACO FLOOR FC 160 CP (base coat):	3.0 m² / Kg @ 200µ wft
ASMACO FLOOR ANTISLIP GRAIN No 4: (0.3-0.6)	1 Kg — 2 Kg / m^2
ASMACO FLOOR FC 160 CP (topcoat):	3.0 m^2 / Kg @ 200µ wft
Estimated System Thickness:	**1.0 — 1.2mm**

- **COVERAGE FOR ANTI SLIP FINE TEXTURE:**

ASMACO FLOOR PRIME P2-SF:	4-6 m² / Kg
ASMACO FLOOR FC 160 CP (base coat):	2.5 m² / Kg @ 250µ wft
ASMACO FLOOR ANTISLIP GRAIN No 1: (0.7 -1.5)	1.25 Kg — 2.25 Kg / m^2
ASMACO FLOOR FC 160 CP (topcoat):	2.5 m^2 / Kg 250µ wft
Estimated System Thickness:	**1.0 — 2.0 mm**

- **COVERAGE FOR ANTI SLIP MEDIUM TEXTURE:**

ASMACO FLOOR PRIME P2-SF:	4-6 m² / Kg
ASMACO FLOOR FC 160 CP (base coat):	2.25 m² / Kg @ 300µ wft
ASMACO FLOOR ANTISLIP GRAIN No 2: (1.5 -2.0)	1.5 Kg — 2.5 Kg / m^2
ASMACO FLOOR FC 160 CP (topcoat):	2.25 m^2 / Kg wft 300µ wft
Estimated System Thickness:	**1.5 — 2.5 mm**

- **COVERAGE FOR ANTI SLIP COARSER TEXTURE:**

ASMACO FLOOR PRIME P2-SF:	4-6 m² / Kg
ASMACO FLOOR FC 160 CP (base coat):	2.0 m² / Kg @ 350 µ wft
ASMACO FLOOR ANTISLIP Grain No 3: (2.0 -2.5mm)	2 Kg — 3 Kg / m^2
ASMACO FLOOR FC 160 CP (topcoat):	2.0 m^2 / Kg @ 350 µ wft
Estimated System Thickness:	**2.0 mm — 3.0 mm**

EPOXY REPAIR PUTTY:

ASMACO POXY 90 FC:	1.65 Kg / m² / 1mm thickness

OPTIONAL UV PROTECTIVE COAT COVERAGE:

ASMACO FLOOR UV2:	2.5m² / Kg

CERTIFICATIONS

Product Data Sheet

TYPICAL PROPERTIES

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color Neutral / RAL …….	—	—
Pot Life @ 35°C	20 min	—
Curing Time of each coat @ 35°C	12 Hours	—
Coat Interval Time @35°C	12 to 15 Hours	—
Light Traffic @35°C after	24 Hours	—
Open for Traffic @35°C after	72 hours	—
Density, g/m³	1.60 ±0.02	ASTM D 1475
VOC	<36 g/L	USEAP 24 - 2023
Compressive Strength @ 7 Days	>70 N/mm²	ASTM D 579 - 2023
Tensile Strength @ 7 Days	>20 N/mm²	ASTM D 638 - 2022
Elongation at Break @ 7 Days	>3 %	ASTM D 638 - 2022
Flexural Strength @ 7 Days	>36.00 N/mm²	ASTM D790-17
Slip Resistance Unit BPN Dry Slip Wet Slip	 80 28	ASTM E303:2022
Abrasion Resistance	29	ASTM D 4060 - 2019
Shore D Hardness	80	ASTM D2240 - 2021
Bacterial Fungal Growth within 7 Days	0	ASTM D 5588

All values stated are subject to a tolerance of ±5–10% and are based on standard laboratory conditions.

Regional Compliance Notice

Please note that regulatory requirements may vary from one region to another. As a result, product information and recommended applications may differ between countries. For accurate and up-to-date details on product specifications and approved uses, and for any technical guidance, please contact Technical Department of ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE.

Disclaimer

The technical information, data, and recommendations provided by ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE are supplied in good faith based on current knowledge and experience and are intended for general guidance only. Product performance may vary due to factors beyond ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE 'S control, including materials, substrates, environmental conditions, and methods of application.

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ANCHOR ALLIED FACTORY L.L.C.
Industrial Area 15| P.O.BOX, 21152 Sharjah, UAE
+971 6 5342091 +971 6 5342107 www. anchorallied.com info@anchorallied.com