

ARMOFLOOR SP250

High Performance, UV Resistant, Rapid Curing Polyaspartic Floor Coating

Description:

ARMOFLOOR SP250 is a high performance, UV resistant, rapid curing, self levelling, high gloss flooring product based on aliphatic polyaspartic resin. ARMOFLOOR SP250 provides excellent color stability and gloss retention and is resistant to most fuels, oils, solvents and cleaners. ARMOFLOOR SP250 can be applied using an airless spray gun or rollers. With a tack free time of 60 minutes re-use times are incredibly short saving customers costly down time.

ARMOFLOOR SP250 can be pigmented and can incorporate colored flakes or aggregates. When applied clear ARMOFLOOR SP250 provides a superior anti-yellowing top-coat sealer to provide the surface with protection against direct sunlight and weather conditions with high abrasion resistance

Uses:

- As a seamless rapid application, for commercial and Industrial flooring system.
- Aircraft hangers
- Warehouse flooring
- As a protection sealer
- Restaurants and kitchen
- Retail shops and shopping malls
- Hospital flooring
- Car Park desks.

Advantages:

- Extremely fast cure and re-use times
- Excellent color and gloss retention
- Excellent self levelling characteristics
- Cure to a very clear finish when not pigmented
- Excellent abrasion resistance
- Self-priming
- Excellent adhesion to concrete substrates
- Excellent chemical resistance
- Resistant to most chemicals, solvents, acids and caustics

- Can be used for indoor and outdoor applications
- Stable over a wide temperature range
- Displays good flexibility and impact resistance compared to standard epoxies.

Instructions for Use:

ARMOFLOOR SP250 should be applied by specialist contractor who must follow the Product Method Statement. Consult with MATEX Technical Department for a list of approved applicators.

Surface Preparation:

Concrete surfaces should be completely cured in order to allow all shrinkage movements to take place before applying the coating. Substrates should clean, dry, free of laitance, concrete dust, dirt, grease, oil, rust, release agents, curing compounds and any other foreign material in order to ensure adequate adhesion. Surface grinding may be needed if applied on old coated substrates.

Surface defects should be repaired using MATEX concrete repair products. Remove dust from surface thoroughly, preferably by vacuum. Highly porous concrete supports, or concrete containing micro-silica must be treated with ARMOPRIME EP100 primer. Metal surfaces must be perfectly cleaned up to the white metal by sand blasting, then treated with one coat of ARMOPRIME EP100 before the oxidation process begins again.

As a top coat, ARMOFLOOR SP250 can be applied directly over epoxy, polyurethane and finished concrete systems within 24 hours for epoxy and PU systems and after 21 days for concrete systems to allow for curing.

Mixing:

ARMOFLOOR SP250 is composed of two components that must be mixed at the time of use. Mix the contents of component A (Base) with a low speed mixer for one minute to homogenize the content of

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the container. Slowly add the entire contents of part B (Hardener) to Part A container and mix the material thoroughly with low-speed mixer (200-300 rpm) fitted with suitable paddle, for an interval of 3-4 minutes confirming a homogenous, color consistent mixture is reached. Be careful not to introduce air while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. Scrape down the sides and bottom of the container to ensure complete mixing.

Application:

After mixing, allow the product to rest for 2 minutes to release entrapped air. ARMOFLOOR SP250 can be applied by brush, roller or spray machine. Apply ONE coat with a thickness of 150 to 200 microns dry film thickness, as a protective coating. Avoid dry edges by always working wet in wet when overlapping, otherwise roller marks will be visible in the final finish. Second coat of ARMOFLOOR SP250 can be applied within 12 hours of application of first coat, if required. Allow 12 hours for traffic use.

ARMOFLOOR SP250 can be applied as a single top coat, or as a multi coat sandwich system incorporating aggregates to give anti slip characteristics.

Standard:

- DIN EN ISO 3251, ISO 3219/A3, ISO 2811-1, EN ISO 1183, ISO 37-2005, ISO 4662, DIN ISO 105-B06
- ASTM D-1217, D-792, D638, D2240, D4060

Coverage:

ARMOFLOOR SP250 achieves coverage of 6.5 square meters per liter @ 150 micron DFT per coat

*Coverage rate is an approximate value, and subject to actual site conditions.

Packaging:

ARMOFLOOR SP250 is available in 4 liter and 15 liter set of two parts metal containers.

Storage:

Store in original packing in dry conditions away from direct sunlight. Store at +15°C to 25°C

TECHNICAL PROPERTIES	
Chemical Base	Polyaspartic/ Polyura technology
Material consumption – approximate L/m ²	0.25ml @ 250µm (Substrate dependent)
Recommended Thickness (µm)	125-1000
Recommended Layer Thickness (µm)	Up to 500
Pot Life @ 20°C (min)	45-50
Tack Free Time @ 20°C, 57% Humidity (h)	45
Pedestrian Traffic after (h)	Light use:4 Heavy use: 8-10
Full cure (Normal Loading) (h)	12
Temp. arrange for application (ambiance) (°C)	+5-+50
Over coat window (h)	8
Chemical Base	Polyaspartic/ Polyura technology
Solid Content	97%
Viscosity (mPa*s) @ 25°C	1500
Density (g/cm ³) @ 20°C	1.35
Tensile Strength (Mpa)	>12
Elongation at tear	≥80%
Hardness (Shore D)	75
Rebound resilience	≥5%
Taber Abrasion (mg)	<30 (Wheel CS17/1.000g/1000 cycles)
Colour Fastness	No Chalking, no discoloration, no cracking and no blistering

Shelf Life:

ARMOFLOOR SP250 can be used within 12 months of production date if stored in proper conditions in an unopened original packing.

Cleaning:

Clean tools with ARMOSOLVENT promptly before material harden. Hardened material must be mechanically removed.

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Remarks:

- Should not be applied onto surfaces likely to suffer from rising dampness or moisture content.
- Should not be applied at ambient temperatures less than 5°C or more than 40°C.
- High temperature accelerates chemical reactions, which shortens the pot life.
- Should not be applied if surface relative humidity is more than 75%.

Health and Safety:

Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapor or spray mist. The product is flammable, keep away from sources of ignition. DO NOT SMOKE. Take precautionary measures against static discharge.

FIRST AID:

- Eyes: In the event of accidental splashes, flush with warm water and seek medical advice.
- Skin: Wash skin thoroughly with soap and water
- Inhalation: Remove to fresh air, keep patient rested
- Ingestion: Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to ARMOFLOOR SP250 Material Safety Data Sheet.

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MATEX warrants that its products are free from material and manufacturing defects. Instructions on how to use the product should be strictly followed to ensure effectivity and safe use. MATEX shall not be liable either directly or indirectly for any damages to personal, equipment or products that may occur as a consequence of the failure of any products application because it has no direct or continuous control over where or how its products are applied. It is the user's responsibility to acquire always the updated version of datasheets.

