

ARMOFLOOR EP200

Epoxy Floor Coating

Description:

ARMOFLOOR EP200 is a solvent based epoxy floor coating. Manufactured in colored dual pack system, base and hardener. It is suitable for chemical protection of industrial pavements, reinforced concrete, slabs, mechanical rooms and metallic structures.

ARMOFLOOR EP200 adheres perfectly to a variety of supports like: concrete, metal, wood, stoneware, etc. Once cured, the applied material forms an anti dust, smooth, semi-gloss, tough finish that has excellent resistance to abrasion, impact and spillage of solvent, fuel, diesel, oil, diluted acid and alkaline solutions.

Uses:

ARMOFLOOR EP200 is designed for application in two coats to achieve a total dry film thickness of minimum 200 microns in variety of applications including:

- Car parks & ramps
- Storage areas and hangers
- Production assembly areas like workshops
- Production faculties and industrial flooring
- Decorative flooring for shops and malls
- Metallic surfaces
- Walls in laboratories mechanical rooms, and coating surfaces requiring protective coating

Advantages:

- High mechanical and abrasion resistant
- Stable colors
- Durable and low maintenance cost
- Chemical resistant
- Excellent adhesion to substrate.
- Ease of application, requires no thinner
- Durable and hygienic finish.

Instructions for Use:

ARMOFLOOR EP200 should be applied by specialist contractors who must follow the Product Method Statement. Consult with MATEX Technical Department for a list of approved applicators.

Surface Preparation:

All surfaces should be sound, clean, dry and free from loose material, efflorescence, laitance and substances which impairs adhesion such as; curing compounds, dirt, oil, grease and old paint. Ensure that concrete floors are fully cured for at least 28 days in order to allow all shrinkage movements to take place. The moisture content of the substrate should be less than 4% throughout.

Prepare floor using mechanical preparation methods such as: grinding, captive blasting, or sand blasting. If the substrate is restricted to access, utilize preparation by handy mechanical tools. Perform necessary repairs to cracks, damaged substrate or voids filling by means of proper repair products from MATEX product range. Apply a rich coat of ARMOPRIME EP70-epoxy primer to enhance mechanical adhesion between the coating and the substrate in case of porous surfaces.

For applications on metal surfaces, apply ARMOPRIME EP70 or EP100 immediately to prevent further oxidization to the surface after mechanical preparation by sand blasting or mechanical wire brush is completed.

Mixing:

Mix the contents of component A (Base) with a low speed mixer for two minutes to homogenize the material of the container. Slowly add the contents of part B (Hardener) to Part A container. Mix the material thoroughly for an interval of 3-4 minutes to obtain a homogenous, color consistent, lump free mixture.

Application:

Apply ARMOFLOOR EP200 with a roller, brush or a spray machine to the well prepared substrate at a consumption note of 5-6 m²/lite in 2 coats. The 2nd coat shall be applied after the 1st coat is fully dry. The total DFT of the quantity shall be minimum 200 microns.

For anti-slip flooring, apply the selected aggregate size in the rate set by design while the coating is still wet. Once coating is dry (15-24 hours), remove

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excess aggregates. It is preferable to apply the subsequent coat with either ARMOFLOOR EP500 or two more coats of ARMOFLOOR EP200 within a time frame of 24 hours to ensure proper coverage for the quartz. Allow 3 days for pedestrian traffic and 7 days for full traffic to ensure proper curing of the material.

Standards:

- ASTM D 4060, ASTM 4541

TECHNICAL PROPERTIES	
Color	Standard MATEX Flooring Color Chart
Appearance	Liquid Coating
Density	1.45 ± 0.03 kg/lit
Pot-life time at 25°C	60 minutes
Application Temperature	+5°C to +40°C
Dry at touch	4 hours
Completely dry@ 25°C	7 days
Bond strength (ASTM D4541)	2.0 N/mm ² (failure within concrete)
Abrasion strength (ASTM D4060)	90 mg/1000 cycles
Service Temperature	+5°C to +90°C

*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

Coverage:

ARMOFLOOR EP200 achieves coverage of 5.0 - 6.0 square meters per liter @ 100 micron DFT.

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

Packaging:

ARMOFLOOR EP200 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 and in temperature-controlled warehouse. Store at +5°C to 25°C

Shelf Life:

ARMOFLOOR EP200 can be utilized within 12 months of production date if stored in proper conditions in an unopened original packing.

Cleaning:

All tools must be cleaned with ARMOSOLVENT before hardening. Hardened material should be removed mechanically.

Remarks:

ARMOFLOOR EP200 should not be applied in the following cases:

- Onto surfaces likely to suffer from rising dampness or moisture contents.
- On asphalt floors or PVC tiles
- Onto surfaces likely to suffer from rising damp or humidity RH > 80%
- When ambient temperatures is less than 5°C.

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 EP200 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.

