

# ARMOFLOOR EP200

## Epoxy Floor Coating

### Description:

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

ARMOFLOOR EP200 adheres perfectly to a variety of supports like: concrete, metal, wood, stoneware, etc. Once cured, the applied material becomes 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.

### Applications:

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

### Advantages:

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

### Instructions for Use:

#### Surface Preparation:

All surfaces should be sound, clean, dry and free from loose material, efflorescence, laitance, curing compounds, dirt, oil and grease. Ensure that concrete

floors are fully cured for at least 28 days in order to allow all shrinkage movements to take place.

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. Consults MATEX Technical Department for further advice. Apply a rich coat of ARMOPRIME EP70 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 thoroughly the material for an interval of 3-4 minutes to obtain a homogenous, color consistent, lump free mixture.

Note that the mixing process is exothermic (heat generating). If high heat is noticed, avoid excessive mixing by reducing the speed of mixing machine.

#### Application:

After mixing the product, allow the mix to rest for 3-5 minutes to release entrapped air, ARMOFLOOR EP200 can be applied by brush, roller or spray machine. After preparation of the work area, apply first coat with the desired thickness. The minimum thickness of product recommended is 70 microns. Application thickness can reach up to 150 micron per coat.

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 excess aggregates and apply second coat as required. It is preferable to

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apply the subsequent coat with either ARMOFLOOR EP 500 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:

ARMOFLOOR EP200 conforms to:

- ASTM C 579, C501
- BS 6319, PART 3 & PART 7

TECHNICAL PROPERTIES	
Color:	: Standard Color Chart
Appearance	: Fluid Coating
Tensile strength	: 28 N / mm <sup>2</sup>
Compressive strength	: 60 N / mm <sup>2</sup>
Flexural strength	: 30 N / mm <sup>2</sup>
Bond strength	: 2.0 N/mm <sup>2</sup> (failure within concrete)
Density	: 1.42 Kg. / Lt.
Pot-life time at 25°C	: 60 minutes
Heat Resistance	: -30°C to +90°C
Solid Content	: 75%
Temp. of application	: +5°C to +40°C
Dry at touch	: 4 hours
Completely dry	: 7 days @ 25°C
Heat resistance	: -30°C to +90°C

## Packaging:

ARMOFLOOR EP200 is available in 4 liter and 15 liter set of two parts metallic containers.

## Cleaning:

All tools must be cleaned with SOLVENT before hardening.

## Coverage:

ARMOFLOOR EP200 achieves coverage of 10 square meters per liter @ 100 micron WFT (wet film thickness) per coat and 70 micron DFT (dry film thickness).

## Storage:

Store in original packing in dry conditions away from direct sunlight and in temperature controlled warehouse.

## Shelf Life:

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

## 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 > 70%
- When ambient temperatures is less than 5°C.

## Health and Safety:

- Use goggles and gloves during application. Do not breathe the vapor of the product. Use only in well ventilated areas.
- Avoid contact with eyes or skin. In case of contact with eyes, clean with plenty of clean water and seek medical assistance.
- Avoid direct contact with flames and fire.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

