

ARMOLEVEL EP5

Epoxy Based, Self Levelling Based Coat up to 5mm

Description:

ARMOLEVEL EP5 is a solvent free, high performance, epoxy-based self-leveling base coat that provides a floor with seamless, water-tight, highly chemical and abrasion resistant smooth layer that removes irregularities and accept further finishes (Epoxy & Polyurethane). It composed of Epoxy base, hardener and selected graded filler, and can be applied from 0 to 5.0 mm thickness.

Applications:

ARMOLEVEL EP5 is designed for flooring repair and elimination of irregularities up to 5.0 mm thickness. Providing a solution when floor maintenance problems exist. It provides a dense, impervious, abrasion and chemical resistant floor surface ready to receive find coat. Typical applications include a Base (Repair) layer for:

- Hygienic facilities; laboratories and hospitals.
- Food processing and medicine production.
- Car Parks.
- Heavy duty storage areas and hangers.
- Production faculties and industrial flooring.
- Decorative flooring for seamless colourful floors.

Advantages:

- Smooth, impervious seamless floor.
- Achievement of levelled surface in large areas to receive further finishes.
- Compatible with all types of Epoxy & Polyurethane based coatings.
- Self-smoothing, high build applications.
- Free of solvent, very low VOC, suitable for work in contained areas.
- High mechanical strength, excellent abrasion resistance.
- Excellent adhesion to substrate.
- Resistance against chemicals, detergents, oils and fuels, spillages.

- Nontoxic, very limited odor.
- Fast repair to floor to receive finishes.

Instructions for Use:

ARMOLEVEL EP5 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, curing compounds, dirt, oil and grease. Concrete floors should be fully cured. Substrates should be totally dry and not likely to suffer from rising dampness. If necessary, suitable damp-proof membranes should be installed to prevent such risk.

Proper surface preparation is essential to ensure maximum bond strength between the substrate and the flooring system is achieved. It is always recommended to prepare the floor utilizing mechanical preparation method; grinding, captive blasting and sand blasting. If the substrate is restricted to access, utilise preparation by handy mechanical tools. Perform repairs to cracks, levelling of floor, fill voids by means of LAVAPOXY Epoxy based repair products. Consults MATEX Technical Department for further advice.

In case of porous surfaces, apply a rich coat of ARMOPRIME EP70 or EP100 to the substrate prior to application of the product. The primer can be applied in a spread rate of 6-8 m²/Lt depending on substrate porosity.

Mixing:

Mix the contents of component A (Base) with a low speed mixer for two minutes to homogenize the content of the container. Slowly add the contents of part B (Hardener) to Part A container. Mix thoroughly the material with low speed mixer (200-300 RPM) for

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an interval of 2 minutes. In case of ARMOLEVEL EP5 add the contents of part C (Filler) to the mixture slowly ensuring continuous mixing for 3 more minutes confirming a homogenous mixture, color consistent and lump free is reached.

Allow the mix to relax for 2-3 minutes prior to application, to allow entrapped air to escape from the mix to prevent pinholes formation at the surface of the finished product. Part mixing of the product components is not acceptable as it will affect both performance and appearance of the finished floor.

Application:

The applicator should ensure that there are sufficient supplies of labor and materials to make the mixing and subsequent application process a continuous one for any given, independent floor area. The mix should be poured onto the primed substrate as soon as mixing is completed in a controlled quantity according to the thickness of application verses the area of work. Pour the mix evenly to the floor. Allow ARMOLEVEL EP5 to flow to the floor. Set the thickness of application to the controlled pin flat aluminum trowel. Double check the exact desired thickness, then spread the materials to the floor evenly using the aluminum adjusted height flat trowel. Allow even spread for the entire work area. Directly apply second batch to the remaining area of the floor in order to prevent fusing marks (control of material quantity and fast preparation of the mix to the requirements of the selected area is a major factor of creating a smooth, leveled fusing free floor). With a spiked roller go over the surface of the product while wet to allow the ARMOLEVEL EP5 to release all air entrapped within. Workers should wear spiked shoes at all times while handling the product.

Standards:

ARMOLEVEL EP5 conforms to:

- ASTM D4541, ASTM D4060, ASTM D638
- BS 6319, Part 7

Packaging:

ARMOLEVEL EP5 is available in 30 Kg set of three parts (A+B) metallic containers and bag of filler.

| TECHNICAL PROPERTIES | |
|---------------------------------------|--|
| Density | 1.80 Kg/ m ³ |
| Pot-life time at 25°C | 60 minutes |
| Water Absorption | <0.1% (ASTM D570) |
| Pull off strength (BS 1881, Pt. 207) | >2 N/mm ² (Failure within the concrete substrate @ 7 days cure. |
| Compressive Strength @ 3 mm thickness | 68 N / mm ² |
| Flexural Strength @ 3 mm thickness | 40 N/mm ² |
| Tensile strength @7 days (ASTM D638) | 18N/mm ² |
| Open to foot Traffic | 24 hours @25°C |
| Open to Vehicular Traffic | 48 hours @25°C |
| Complete Hardening | After 7 days |

Storage:

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

Coverage:

ARMOLEVEL EP5 achieves approx. coverage of 16.60 square meters per set @ 1.0 mm thickness.

Shelf Life:

ARMOLEVEL EP5 can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

Cleaning:

Clean used tools with ARMOSOLVENT before product dries.

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Remarks:

- ARMOLEVEL EP5 should not be applied onto surfaces likely to suffer from rising dampness or moisture content.
- ARMOLEVEL EP5 Should not be applied at ambient temperatures less than 5°C.
- ARMOLEVEL EP5 should not be applied to asphalt, weak or friable concrete, PVC tiles or sheet substrates.
- ARMOLEVEL EP5 should not be applied if the surface relative humidity is more than 75%.
- All Existing expansion or movement joints should be followed through the new floor surface.
- It is strongly recommended to apply ARMOLEVEL EP5 by specialist contractor or experienced applicator who must follow the procedures laid down in the product Method Application.

Health and Safety:

- Use goggles and gloves during application. Do not breathe vapor of products. Use only in well ventilated areas.
- Avoid contact with eyes or skin.
- 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.

