

# ARMOFLOOR WB150

## Water based Epoxy Floor Coating

### Description:

ARMOFLOOR WB150 is a zero VOC, low odor, two component water based epoxy floor coating. The cured coating gives an excellent protection to concrete surfaces and provides an easily cleaned, non-dusting finish to the surface. The product is free of organic solvents and can be applied to damp surfaces.

ARMOFLOOR WB150 complies with international regulatory sanitation performance standards, for food establishment facilities and meets the green environmental standard for paints and coating, based on performance requirements and reduced use of hazardous substances and reduced volatile organic components (VOC).

### Uses:

ARMOFLOOR WB150 design for concrete floors in areas of light to medium vehicle traffic and where occasional spillage of mild chemicals may occur. Very low odor during application makes it deal for use in schools, healthcare facilities, food service areas, office buildings, hotels or in any area where odors are an issue.

### Advantages:

- Durable and very good resistance to abrasion.
- Very good adhesion to the support surfaces.
- Non-toxic. Can be applied in food processing factories.
- Odorless. Ideal for internal application.
- Water based, green product, with zero VOC
- Good resistant against chemicals
- Ideal for maintenance application, in food and medical facilities.
- The applied coating is impervious to moisture and easily cleaned and sanitized.

### Instructions for Use:

#### Surface Preparation:

The surface must be perfectly clean, solid, sound, uncontaminated, free from oil, grease, old friable varnish, etc.

New concrete should be allowed to cure for 21 days before application of any coating. Prepare floor using mechanical preparation methods such as: Grinding, captive blasting, or sand blasting. If the substrate is restricted to access, utilise preparation by handy mechanical tools or by chemical etching treatment followed by water cleaning.

Old concrete should be sound, clean to achieve maximum adhesion. Dust should be removed by vacuum. Oil and grease should be removed by cleaning chemical etching treatment followed by water cleaning. It is recommended to shot blast the concrete substrate in order to provide a suitable clean surface. All necessary repairs should be made prior to application by using MATEX concrete repair products.

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 WB-water based primer to enhance the adhesion between the coating and the substrate in case of porous surfaces.

Metal surface should be completely cleaned by blasting or grinding to remove all rust and corrosion. If the surfaced is not corroded, it is strongly recommended to clean the surface with solvent or a strong detergent to ensure surface is free form grease or oil. Immediately after surface cleaning is completed, apply ARMOPRIME EP100-epoxy based primer to prevent further oxidization to the surface.

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## Priming:

Concrete surface must be treated with ARMOPRIME WB-water based primer. For water tank treatment concrete corners between wall-wall and floor-wall must be rounded with LAVAREP F60-repair material. For ceramic or steel supports use EPOFIX for rounding the corners.

## Mixing:

Mix the content of component B (Hardner) with a low speed mixer for two minutes to homogenize the material of the container. Slowly add the content 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

## Application:

After mixing the product, allow the mix to rest for 2-3 minutes to release entrapped air. ARMOFLOOR WB150 can be applied by brush, roller or spray machine. After preparation of the work area, apply first coat with the desired thickness. Application thickness can reach up to 200 micron per coat.

## Standards:

- ASTM D4060, ASTM D4541

TECHNICAL PROPERTIES	
Appearance	Liquid
Colours	Standard Color Chart from Matex Flooring chart
Density at 25°C	1.3 kg/lit
Pot life at 25°C	90 minutes
Dry Residual	>60%
Application Temperature	+5°C to +40°C
Tack free time at 25°C	3 hours
Full cure at 25°C	3 days
Time Between Coats	24 hours
Bond Strength (ASTM D4541)	>2.00 N/mm <sup>2</sup>
Abrasion Resistance (ASTM D4060)	80 mg/1000 cycles
Chemical Resistance	Mild acids, alkalis, solvents and seawater
VOC	: <1.0 g/Ltr.

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

## Coverage:

ARMOFLOOR WB achieves coverage of 2.5 m<sup>2</sup>/ltr/coat at 200 micron dft. depending to the porosity of the support.

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

## Packaging:

ARMOFLOOR WB150 is available in 4 and 15 liter set of two parts metal containers.

## Storage:

ARMOFLOOR WB150 to be stored in original packing in dry conditions away from direct sunlight. Store at +15°C to 25°C

## Shelf Life:

ARMOFLOOR WB150 can be utilized within 12 months of production date if stored in proper conditions in an unopened original packing.

## Cleaning:

Tools and equipment should be cleaned with water immediately after use. Hardened material should be removed mechanically. Spillages should be absorbed with sand or sawdust and disposed of in accordance with local regulations.

## Recommendations:

- Partial mixing of the product components should not be allowed under any conditions.
- Extra care should be taken when applying at high temperature as pot life of the mixed product will shorten automatically.
- It is recommended to shade the working area while mixing and applying ARMOFLOOR WB150.
- ARMOFLOOR WB150 should not be applied onto surfaces with relative humidity more than 80% and temperature below +5°C.
- ARMOFLOOR WB150 is compatible with most coatings, but test patch is suggested.

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## 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 vapour or spray mist.

### 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 WB150 Material Safety Data Sheet.

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