

# ARMOFLOOR AC

## Acrylic Based Single Component Floor Coating

### Description:

ARMOFLOOR AC is a general purpose, interior/exterior, 100% acrylic, low odor, waterborne floor coating. It is specially designed for maximum adhesion and resistance to weather, UV rays, chemicals and mildew. When it dries, it creates a tough, floor coating which will withstand hardware, abrasion, grease, oils, and cleaning equipment.

### Uses:

ARMOFLOOR AC is used for protection and decoration of concrete, and other cement and lime-cement surfaces, in warehouses, garages, chiller and boiler rooms. Some areas of application includes:

- Laboratories
- Light assembly and production areas
- Hospitals
- Industrial/commercial office areas
- Interlock pavements
- Food industries

### Advantages:

- One component, easy to apply.
- Fast dry with good UV and chemicals resistance.
- Special acrylic resin mixed with special pigments to assure excellent exterior durability.
- Excellent color retention.
- Will not peel or blister under normal condition.
- Slip resistant properties.
- High Abrasion resistant.
- Water based with no odor.
- Acceptable for use in, hospitals, and food industries.

### 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. 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, sand blasting. If the substrate is restricted to access, utilise preparation by handy mechanical tools. Perform repairs to cracks, levelling of floor, voids filling by means of LAVAREP repair products

#### Previously Painted Surfaces:

If in sound condition, clean the surface from all foreign material. Smooth, hard or glossy surfaces should be prepared by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. If paint is peeling or badly weathered, clean surface to sound substrate by means of mechanical preparation as above mentioned.

Normal concrete substrate does not require priming. High porous substrates or areas under high traffic, should be primed with one coat of the same product diluted with 10% water. As a general guidance, the following table can be followed. For specific applications, please consult MATEX Technical Department for the recommended design criteria.

Surface	Priming	Coating
Concrete Surface Finishing (light to medium traffic)	Not required	Two coats of ARMOFLOOR AC
Concrete Surface Finishing (high traffic)	ARMOFLOOR AC dilute with 10% water	Two coats of ARMOFLOOR AC
Previously painted floors (in sound conditions)	Not required	One or two coats of ARMOFLOOR AC

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## Mixing:

Stir the product thoroughly by stirring with a low speed drill fitted with a suitable paddle before use. Make sure that no pigments remain on the bottom of the container. It is also necessary to leave the product for few minutes after mixing to let air bubbles come out from the mix.

## Application:

Apply ARMOFLOOR AC with brush, roller or spray machine to substrate uniformly in two coats. Apply the first coat with a rate of 1.5 m<sup>2</sup> per liter at 200 micron DFT to ensure proper penetration and coverage to the surface. Before applying the second coat, make sure that the previous coat is completely dry. Apply the second coat with the same coverage rate at right angle to the first coat. For very porous substrate, apply third coat of ARMOFLOOR AC. If slip resistance finish is required, broadcast silica aggregate with the QUARTZ No.1 onto first coat while wet. Once cured, remove excess silica and apply the second coat.

## Standards:

- ASTM D4060, ASTM D4541

TECHNICAL PROPERTIES	
Color	Refer to MATEX Flooring Color chart
Appearance	Liquid
Finish	Smooth eggshell
Density	1.18 ± 0.03 kg/lit
Drying time at 25°C	
To touch	30 minutes
Recoat	4 hours
Foot traffic	8-12 hours
Heavy traffic	24 hour
Adhesion (ASTM D4541)	2.4 N/mm <sup>2</sup>
Flash Point	> 95°C
Chemical Resistance	Resistant to wide range of diluted chemicals

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

## Coverage:

ARMOFLOOR AC achieves approx. coverage of 1.5 square meters/lit @200 micron Dry Film thickness.

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

## Packaging:

ARMOFLOOR AC is available in 20 liter containers.

## Storage:

Store in original packing in dry conditions away from direct sunlight and humidity levels.

## Shelf Life:

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

## Cleaning:

Clean tools and equipment with water before material hardens. Hardened materials can only be removed mechanically.

## 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 AC Material Safety Data Sheet.

MATEX Rev.05-0422

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