

# ARMOFLOOR UVR

## UV Resistant Aliphatic Polyurethane Coating

### Description:

ARMOFLOOR UVR is a two parts, aliphatic, low viscosity polyurethane top coat system. The product is formulated with special adhesion promoters to give the applied coat excellent penetration and adhesion with the surface. Once applied, it cures rapidly into a hard sealer that offers excellent stain resistance with easy cleaning ability.

ARMOFLOOR UVR is designed to act as a UV resistant over ARMOFLOOR range of epoxy and polyurethane floor coating system. It can also be applied on several kinds of substrate such as stamped concrete, decorative concrete and metallic surface to provide the surface with protection against direct sunlight and weather conditions with high abrasion resistance.

### Uses:

ARMOFLOOR UVR has been designed as a UV resistant coat for ARMOFLOOR range of epoxy and polyurethane floor coating system. The excellent resistance to chemicals and the high abrasion resistant combined with its elasticity makes ARMOFLOOR UVR suitable for use in car parks, vehicle ramps both indoor and outdoor. Other applications include:

- As a protection sealer for concrete, acid stained surfaces and decorative flooring.
- Finish coat in vehicle areas ,pedestrian walkway as it provides high abrasion resistant top coat finish to the surface.
- As a finishing coat in industrial, loading docks, commercial facilities where heavy duty polyurethane floor finish is required.
- Wooden floors and metallic surfaces.

### Advantages:

- UV resistant, excellent for outdoor applications.
- Excellent abrasion resistant.
- Integrates with various systems.
- High mechanical and impact resistant.
- Available in stable colours or transparent.
- Non-yellowing, flexible coating.
- Excellent surface adhesion.
- Chemical and stain resistant. Easy to clean.

### Instructions for Use:

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

### Surface Preparation:

Concrete surfaces should be completely cured in order to allow all shrinkage movements to take place before applying the coating. Substrates should clean, dry, free of laitance, concrete dust, dirt, grease, oil, rust, release agents, curing compounds and any other foreign material in order to ensure adequate adhesion. Surface grinding may be needed if applied on old coated substrates.

Surface defects should be repaired using MATEX concrete repair products. Remove dust from surface thoroughly, preferably by vacuum. Highly porous concrete supports, or concrete containing micro-silica must be treated with ARMOPRIME EP100 primer. Metal surfaces must be perfectly cleaned up to the white metal by sand blasting, then treated with one coat of ARMOPRIME EP100 before the oxidation process begins again.

As a top coat, ARMOFLOOR UVR can be applied directly over epoxy, polyurethane and finished concrete systems within 24 hours for epoxy and PU systems and after 21 days for concrete systems to allow for curing.

### Mixing:

ARMOFLOOR UVR is composed of two components that must be mixed at the time of use. Mix the contents of component A (Base) with a low speed mixer for one minute to homogenize the content of the container. Slowly add the entire contents of part B (Hardener) to Part A container and mix the material thoroughly with low-speed mixer (200-300 rpm) fitted with suitable paddle, for an interval of 3-4 minutes confirming a homogenous, color consistent mixture is reached. Be careful not to introduce air while mixing. Make sure the contents are completely

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mixed to avoid any weak or partially cured spots in the coating. Scrape down the sides and bottom of the container to ensure complete mixing.

## Application:

After mixing, allow the product to rest for 2 minutes to release entrapped air. ARMOFLOOR UVR can be applied by brush, roller or spray machine. Apply first coat with a thickness of 75 to 100 microns dry film thickness, as a protective coating. Avoid dry edges by always working wet in wet when overlapping, otherwise roller marks will be visible in the final finish. Second coat of ARMOFLOOR UVR can be applied within 12-16 hours of application of first coat, if required. Allow 1 day for pedestrian traffic and 3-5 days for full traffic to ensure proper curing of the materials.

ARMOFLOOR UVR can be applied as a single top coat, or as a multi coat sandwich system incorporating aggregates to give anti slip characteristics.

## Standards:

- ASTM D4541, ASTM D4060

| TECHNICAL PROPERTIES              |                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------|
| Color                             | Standard Matex Color Chart (further colors are available on request)            |
| Density                           | 1.30 ± 0.03 kg/lit                                                              |
| Pot-life time at 25°C             | 60 minutes                                                                      |
| Drying time @23°C                 | Recoating: 12-24 hours<br>Light traffic: 24-48 hours<br>Vehicle traffic: 7 days |
| Dry Coat Thickness                | 75 - 100 µ depending on substrate conditions                                    |
| Application Temperature           | +5°C to +40°C                                                                   |
| Adhesion to Concrete (ASTM D4541) | >2 N/mm <sup>2</sup> (Cohesive failure within concrete)                         |
| Tensile Strength (ASTM D412)      | >5 N/mm <sup>2</sup>                                                            |
| Abrasion Resistance (ASTM D4060)  | 90 mg/1000 cycles                                                               |

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

## Coverage:

ARMORFLOOR UVR achieves coverage of 5.0 square meters per liter @ 100 micron DFT per coat

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

## Packaging:

ARMOFLOOR UVR 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. Store at +15°C to 25°C

## Shelf Life:

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

## Cleaning:

Clean tools with ARMOSOLVENT promptly before material hardens. Hardened material must be mechanically removed.

## Remarks:

- Should not be applied onto surfaces likely to suffer from rising dampness or moisture content.
- Should not be applied at ambient temperatures less than 5°C or more than 40°C.
- High temperature accelerates chemical reactions, which shortens the pot life.
- Should not be applied if surface relative humidity is more than 75%.

## 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 UVR Material Safety Data Sheet

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