

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 power with the surface. Once applied, it cures rapidly into a hard sealer with glossy surface that offers excellent stain resistance with easy cleaning ability.

ARMOFLOOR UVR is designed to act as a UV resistant sealer 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.

Applications:

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:

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. Highly porous concrete supports, or concrete containing micro-silica must be treated with ARMOPRIME PU. Metal surfaces must be perfectly cleaned up to the white metal by sand blasting, then treated with one coat of ARMOPRIME PU 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 14 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 thoroughly the material 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.

ARMOFLOOR UVR

Application:

After mixing, allow the product to rest for 3 minutes to release entrapped air, ARMOFLOOR UVR can be applied by brush, roller or spray machine. Apply first coat with a thickness of 100 microns wet film thickness, as a protective coating high build is not required. Second coat of ARMOFLOOR UVR can be applied within 3-5 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 a slip.

Standards:

ARMOFLOOR UVR conforms to:

- EN 13813,
- ASTM D 4541
- BS EN 13892-4, BS EN 13892-8

TECHNICAL PROPERTIES

Color	:	Standard Color Chart (further colors are available on request)
Tensile Strength	:	12 N / mm ²
Compressive Strength	:	60 N / mm ²
Elongation	:	40 %
Solid Contents	:	60%
Density	:	1.25 ± 0.05 g/cm ³
Abrasion Resistance	:	60 mg
Pot-life time at 25°C	:	60 minutes
Drying time @23°C	:	Recoating 12-24 hours Light traffic 24-48 hours Vehicle traffic 7 days
Dry Coat Thickness	:	75 - 100 μ depending on substrate conditions
Adhesion to Concrete	:	Concrete fails before loss of bond

Packaging:

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

Storage:

Store in original packing in dry conditions away from direct sunlight.

Coverage:

ARMOFLOOR UVR achieves coverage of 10 square meters per liter @ 100 micron WFT (Wet Film Thickness) per coat.

Shelf Life:

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

Cleaning:

Clean tools with ARMOFLOOR SOLVENT promptly before material hardens. Cured 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 temperatures accelerates chemical reactions, which shortens the pot life.
- Temperatures should not fall below 5°C until the material is fully cured.

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.

MATEX Rev.00-1015

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.

