

ARMOGUARD UV

UV Resistant Aliphatic Polyurethane **Coating**

Description:

ARMOGUARD UV 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.

ARMOGUARD UV is designed to act as an Ultra Violet Rays resistant topping over ARMOFLOOR range of epoxy and polyurethane coating systems. 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:

ARMOGUARD UV has been designed as a UV resistant coat for both concrete and metallic surfaces. The excellent resistance to acids, diluted alkalis, spillage of solvents, jet fuel, grease, etc. and the high abrasion resistant combined with its elasticity makes ARMOGUARD UV suitable for use in exterior application of metallic tanks, steel structures, outdoor vehicle ramps and traffic areas. Other applications include:

- Top coat on various systems under direct sun light, on metallic and concrete surfaces.
- Abrasion resistance for coating of steel structures.
- As a protection sealer for concrete, acid stained surfaces, architectural concrete 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, marine works area, commercial facilities where heavy duty polyurethane 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.
- Ease of application, requires no thinner.
- Excellent surface adhesion.
- Chemical and stain resistant. Easy to clean.

Instructions for Use:

Surface Preparation:

Metal surfaces must be perfectly cleaned up to the white metal by sand blasting or grit blasting, then treated with one coat of ARMOPRIME EP70 range before the oxidation process begins again, coloured ARMOGUARD UV can be applied directly to the epoxy primed surface. Concrete surfaces should be completely cured in order to allow all shrinkage movements to take place before applying the coating. Substrates should be clean, dry, free of laitance, concrete dust, dirt, grease, oil, rust, release agents, curing compounds, loose cement, hardeners and any other foreign material in order to ensure adequate adhesion.

Old coated substrates require preparation by light grit blasting or surface grinding, defects should be repaired using MATEX concrete repair products.

Mixing:

ARMOGUARD UV 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.

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Application:

After mixing, allow the product to rest for 3 minutes to release entrapped air, ARMOGUARD UV can be applied by brush, roller or spray machine. For best results, spray machine is recommended.

As a protective coating of steel surfaces or other substrates such as stamped concrete, decorative flooring or wooden panels, apply first coat of ARMOGUARD UV over primed surface with a thickness of 100 microns wet film thickness, high build is not required, second coat of ARMOGUARD UV should be applied within 3-5 hours of application of first coat, after application of two coats, allow 5-7 days for full curing.

As a top coat over epoxy, ARMOGUARD UV can be applied directly over epoxy systems within 24 hours. ARMOGUARD UV can be applied as a single top coat.

Standards:

ARMOGUARD UV 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 Full curing 7 days
Dry Coat Thickness	:	75 - 100 μ

Packaging:

ARMOGUARD UV is available in 4 liter and 15 liter set of two parts metallic containers.

Coverage:

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

Storage:

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

Shelf Life:

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

Cleaning:

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

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.

