

Technical Data Sheet

ARMOFLOOR PU100

Single Component Polyurethane Protective Traffic Coating

Description:

ARMOFLOOR PU100 is a single component, moisture cured polyurethane coating designed to provide a seamless, touch, flexible, abrasion and chemical resistant finish for internal covered areas. It is applicable on floors subject to pedestrian and vehicle traffic and requires high quality Urethane protection.

Uses:

ARMOFLOOR PU100 is applied to give a protective and wear resistant coating for trafficked areas at:

- Mechanical shops and equipment rooms.
- Walking decks.
- Car parks and pedestrian walk areas.
- Chemical plants.
- Industrial floors.
- Pedestrian walk paths, wooden or concrete.

Advantages:

- Highly durable, tough and flexible.
- Excellent abrasion resistance.
- Good chemical resistance.
- Excellent surface finish.
- Easy to apply.

Instructions for Use:

Surface Preparation:

Proper surface preparation is essential, to assure a maximum bonding strength of the product to the substrate. All surfaces should be sound, clean, dry and free from loose material, efflorescence, laitance, curing compounds, dirt, oil and grease. Ensure that concrete floors fully cured for at least 28 days.

Floor preparation using mechanical method like grinding, captive blasting, sand blasting which would provide a suitable profiled open textured surface is strongly recommended. 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 Epoxy based repair products. Consults MATEX Technical Department for further advice. Allow the applied material to harden. Once all preparation is complete, ensure dust is removed from the surface using an industrial vacuum.

Apply ARMOPRIME EP100 to the prepared surface at a rate of 4 to 6 m²/Lt depending on the porosity of the concrete substrate.

Mixing:

ARMOFLOOR PU100 is a single component product, stir the contents of the container to ensure no residue settled in the bottom of the container. Avoid any air entrapment in the material while mixing

Application:

Apply the first coat of ARMOFLOOR PU100 with roller, brush or spray machine, with a rate of 3-4 square meters per liter for the first coat. For a slip resistant finish, broadcast non-slip aggregates QUARTZ to the first coat 1.0 -1.5 kg /sq. m. while the coat is still wet. Allow the coat to dry then sweep the excess aggregates and clean the surface by means of oil free air blower.

Apply second coat of ARMOFLOOR PU100 to the floor with the same rate. Ensure proper coverage of all aggregate grain to unify the final color and sheen. The coating will achieve its full mechanical properties after 7 days of cure after which the floor can be subjected to heavy traffic.

Standards:

ARMOFLOOR PU100 conforms to:

- ASTM D 412, 4541

ARMOFLOOR PU100

Packaging:

ARMOFLOOR P100 is supplied in 4 and 15 liter kits.

TECHNICAL PROPERTIES:	
Color	: Refer to Matex Flooring Color chart
Density	: 1.32 Kg. / Lt.
Tensile Adhesion	: >2.0 N/mm ²
Strength	
Tear Strength	: 25 N/mm ²
Elongation	: 35%
Tensile Strength	: 1.5 g/cm ³
Solid Contents	: 85%
Open to light traffic	: 8 hours
Open to full traffic	: 3 days

Coverage:

ARMOFLOOR PU100 achieves 3.5-4.0 square meter/liter @ 200 micron dry film thickness.

Storage:

Store in original packing in dry conditions away from direct sunlight in a temperature controlled warehouse.

Shelf Life:

ARMOFLOOR PU100 can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

Cleaning:

Clean tools with ARMOSENSE before material dries.

Remarks:

- Do not apply ARMOFLOOR PU100 when the humidity exceeds 80%.
- Make sure that the substrate temperature is higher than 5°C.
- The curing time of ARMOFLOOR PU100 is influenced by the weather conditions.
- At high temperatures, chemical reactions are speeding up thus shortening the pot life, open time and the curing times.
- ARMOFLOOR PU100 should not be applied on surfaces with a risk of rising dampness.
- Incorrect assessment treatment of cracks may lead to a reduced service life and reflective cracking.
- ARMOFLOOR PU100 is not designed to be exposed to external applications.

Health and Safety:

- Avoid contact with skin & eyes.
- Wear gloves & safety goggles during application.
- Ensure adequate ventilation at site and avoid inhalation of vapours.
- Clean hands and skin with clean water in case of exposure.
- Treat any splashes to the skin or eyes with fresh water immediately. Should the product be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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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.

