Technical Data Sheet

ARMOFLOOR PU150

Polyurethane Floor Coating

Description:

ARMOFLOOR PU 150 is an elastomeric solvent based polyurethane floor coating, manufactured in duel pack system, colored to choice for mechanical and chemical protection of floors pavements, reinforced concrete and metallic surfaces.

ARMOFLOOR PU150 adheres perfectly to a variety of supports like: concrete, metal, wood, stoneware, etc. and used as a chemical and abrasion resistant coating for pedestrian or traffic flooring.

Applications:

ARMOFLOOR PU150 is used as a floor coating or within a system at:

- Car parks & ramps.
- Hospitals and clinics walls and floors.
- Production faculties and mechanical rooms.
- Decorative flooring for shops and showroom.
- Application on metallic and wood surfaces.
- ARMOFLOOR PU150 can be used for coating concrete floor in alimentary, pharmaceutical industries, warehouses, mechanical rooms, showrooms, workshops, etc.

Advantages:

- Elastomeric coating, with excellent impact resistance.
- Excellent mechanical and abrasion resistant.
- Stable colours with high weather resistance.
- Durable and low maintenance cost.
- Excellent resistance to a wide range of chemicals.
- Excellent adhesion to substrate.
- Ease of application, requires no thinner.

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. Ensure that concrete floors are fully cured and have moisture content less than 5%. Prepare surface utilizing mechanical preparation method: Grinding, captive blasting, sand blasting in order to provide suitable profiled open texture surface. If the substrate is restricted to access, utilise preparation by handy mechanical tools.

All repairs to cracks, levelling of floor, filling voids should be completed by LAVAPOXY and LAVAPOXY FINISH, epoxy based repair products. Once the repair is completed allow the product to cure then remove the dust from the surface. Metal surfaces must be perfectly cleaned up to the white metal by sand blasting. Consult MATEX Technical Department for further advice.

Apply a rich coat of ARMOPRIME EP100 or ARMOFLOOR PU to the substrate prior to application of ARMOFLOOR PU150. The primer can be applied in a spread rate of 4 to 6 m²/Lt. depending on substrate porosity. If slip resistance finish is required, spray on to the wet primer 0.5-1.0 Kg/m2 of ARMOFLOOR Quartz. Once the primer is cured, remove excess silica.

For applications on metal surfaces, the surface should be mechanically cleaned by sand blasting or by wire brush to remove the rust and corrosion residues. Apply the primer immediately after cleaning to prevent oxidization process to start again.

Mixing:
Mix the contents of component A (Base) with a low speed mixer for one minute to homogenize the contents of the container. Slowly add the contents of part B (Hardener) to Part A container and mix thoroughly the material with low speed mixer fitted with a suitable paddle for an interval of 3-4 minutes confirming a homogenous, color consistent, lump free mixture is reached.

Application:
After mixing, allow the product to rest for two minutes to release the entrapped air. Apply two coats of ARMOFLOOR PU150 by brush, roller or spray machine. Each coat can be applied with a thickness of 100 microns WFT (wet film thickness) to reach the desired total

ARMOFLOOR PU150

thickness. Maximum applied thickness can reach up to 150 microns WFT per coat.

For anti-slip flooring, spread the selected size Quartz in the rate set by design while the coating is wet. Once the surface is dry (8-24 hours), remove excess silica sand and apply the second coat as required. For heavy traffic areas such as drive lanes, ramps, turn areas, or other areas subjected to high abrasive traffic, apply a third coat of ARMOFLOOR PU150. Subsequent coats of ARMOFLOOR PU150 should be applied within a time frame of 24 hours.

Standards:

ARMOFLOOR PU150 conforms to:

- ASTM D4541, ASTM D4060, ASTM D638
- BS 6319, Part 7

Coverage:

ARMOFLOOR PU150 achieves coverage of 10 square meters per liter @ 100 micron WFT (wet film thickness) per coat and 70 micron DFT (dry film thickness).

Packaging:

ARMOFLOOR PU150 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 in a temperature controlled warehouse.

Cleaning:

Tools can be cleaned using ARMOSOLVENT before the mix dries.

Shelf Life:

ARMOFLOOR PU150 can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

TECHNICAL PROPERTIES		
Color	:	Standard Color Chart
Tensile Strength	:	11.0 N / mm²
Compressive Strength	:	65.0 N / mm²
Flexural strength	:	12.5 N / mm²
Density	:	1.32 Kg. / Lt.
Pot-life time at 25°C	:	40 minutes
Heat Resistance	:	-30°C to +90°C
Dry Residual	:	75%
Completely Hardened	:	7 days
Adhesion	:	Bonding strength to concrete surface is greater than cohesive strength of concrete substrate.

CHEMICAL RESISTANCE		
Material	**Concentration**	**Resistance**
Lactic Acid	10%	Excellent
Citric Acid	10%	Excellent
Butanol	-	Excellent
Crude Oil	-	Excellent
Mineral Oil	10%	Excellent
Sea Water/Jet Fuel		Excellent

Health and Safety:

- Use goggles and gloves during application. Use only in well ventilated areas.
- Avoid contact with eyes or skin.
- In case of contact with eyes, clean with plenty of clean water and seek medical advice immediately.

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