

DECK FLOOR PU

Polyurethane Car Park system



Introduction

Deck Floor PU is polyurethane based heavy duty floor coating system specially designed for car park. It has excellent bonding, flexibility and abrasion resistance properties. Deck Floor PU is available in varieties of color shades including glossy and matte finish. Application of Deck Floor PU significantly improves the durability and aesthetic appearance of the applied surface and its surrounding.

Key Features

- 100% solid no volatile organic content – can be applied at indoor areas without the risk of health hazard
- Excellent adhesion with concrete, brick and natural stone
- Optimum mix viscosity, pot life and drying properties
- Good resistance against vehicular tyre scratch marks
- Excellent gloss and colour retention
- Resistant against motor oil, greese, petrol, deisel spillage stains
- Does not allow algae formation or root penetration

Technical Data

Mixing Ratio		
Base coat	Part A	3 Kg
	Part B	1 Kg
Top coat	Part A	5 Kg
	Part B	1 Kg
Pot life @ 25°C	Base coat	10 minutes
	Top coat	30 minutes
Tack free time	3-4 hours	
Cure time	24 hours hours	
Coverage	0,5 Kg./ sq.m.	
Adhesion strength	>3 N/mm ²	
Tensile Strength	15 N/mm ²	
Elongation	>50 %	
Taber abrasion resistance	<50 mg/1000 cycles	

Application Procedure

Surface Preparation

New concrete surfaces should be fully cured. Make sure the moisture content in the concrete is less than 5%. The ambient temperature for application must be between 15-35 °C.

Substrate should be free from dust, oil, curing agent residues, laitance and other contaminants. Do not use thinner to remove paint or coating. Remove paint using mechanical abrasion.

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Grind the concrete surface using hand held grinder or concrete grinding machines (for larger areas) properly. It will expose the sound concrete for best bonding and will also help in locating cracks (if any).

Allow the patched area to cure before applying the membrane.

All metal surfaces should be made clean of paint, oils, rust and other contaminants.

Priming

Apply the first coat of Deck Prime EP and allow it to absorb for 20-30 min. Apply the second coat wherever necessary.

Repair voids, cracks, broken edge and honey-combs properly using epoxy based concrete repair products.

Allow the primer to cure for 12 hours before further application.

Base Coat Application

Apply base coat on well primed and smoothened surface.

Both the components of Deck Floor PU Base Coat are pre weighed in required proportion for best performance. However if part mixing is required, strictly follow the mixing ratio as given in the table above.

Empty the content of Deck Floor PU Part B in Part A container completely and mix it using low RPM (300-400 RPM) helical mixer for 1-2 min. Avoid air entrapment during mixing. Spread the mix using 0.5 mm DFT notched trowel on the prepared surface and remove pin holes (if any) using spike roller.

Once the base coat is spread uniformly broadcast Deck Floor PU Aggregates. Do not put aggregate at once at one place. Allow the base coat to saturate the aggregate layer. If surface looks saturated, add more aggregate till only dry aggregate is on the top.

Allow it to cure for 8-12 hours minimum before further application

Top Coat Application

Remove the excess aggregate from the surface of base coat.

Prepare the top coat colour in the same manner as base coat. Apply the freshly prepared Deck Floor PU Top Coat colour on the prepared base coat using clean roller only. Allow the coating to cure for 24 hours before resuming traffic. Clean the application tools using Deck Thinner.

Packaging

Base Coat Part A - 3 Kg

Base Coat Part B - 1 Kg

Top Coat Part A - 5 Kg

Top Coat Part B - 1 Kg

Storage

Store in the original container with the lid closed appropriately. Keep in cool, dry and under shed condition away from sunlight and water. Storage temperature must be between 10 to 35°C. Deck Floor PU performs well for at least 6 months from the date of manufacture.

Health and Safety

Kindly wear hand gloves, nose mask and safety goggles while handling the product. Any contact with eyes should be washed immediately with clean water and seek medical advice. Do not use empty cans obtained after using Deck Floor PU Part A for containing potable water or any other edible item. Deck Floor PU Part B contains carcinogenic compounds thus care and attention must be taken while handling it. Waste chemicals must be disposed properly. Do not throw them on land or sewage directly.

Product Disclaimer

This product is manufactured with utmost care and precautions using best available materials, techniques and keeping in view the end use and assured performance. However, no specific guarantee can be given since the application of the product (prevailing site and environmental conditions while applying etc.) is beyond our control. We therefore welcome consultation in the event of doubt