

DESMOCRETE PU-CP15

Polyurethane based Floor Coating System for Internal Car Parking Deck

Introduction

DESMOCRETE PU-CP15 is a polyurethane based floor coating system designed for internal car parking deck. It protects the underneath concrete surface from damage due to vehicular movement or parking thus extending the life of car park structure.

Key Features

- Looks exceptional, with a clean, scratch-free, smooth appearance
- Easy to clean and maintain
- Increases tyre grip, which helps with traction, critically required during movement across ramp area or taking turn
- Reflects light, which adds to car park visibility and safety
- Absorbs sound, which reduces the noise made from tyres in the car park
- Extremely durable and abrasion resistant with low maintenance cost
- Resistant to vehicular fluid spillages

Technical Data

Specific gravity	Part A: 1.3
	Part B: 1.2
Pot life at 30°C	15 minutes
Full cure time	7 days
Adhesion with concrete	1.5 MPa
Tensile strenath	7 MPa
Maximum elongaation	80 %

System Build-up

The car park flooring system comprises of three layers involving three different products. Their typical consumption is given below for an overall 1.5 mm DFT (approximately).

Build-up	Product	Consumption
Primer Coat	POXY205	0.25 Kg/ Sq.m
Base Coat with anti-slip aggregate	PU-BC	0.3 Kg/ Sq.m
Top Coat	PU-CP15	0.8-1.1 Kg/ Sq.m

Note: These consumption data are for smooth concrete surface, however, it will vary depending upon surface undulations, porosity and texture.

Application Instructions

Important Notes

1. The concrete substrate must be minimum 28 days old
2. The moisture content in the concrete should be less than 5%.
3. There should be no signs of raising dampness
4. It must pass standard test for indicating moisture in concrete using plastic sheet method as per ASTM D4263

Surface Preparation

The surface of application must be clean, smooth and sound. Concrete surface should be free from dust, laitance, oil, debris, loose concrete etc. presence of which results in poor bonding between concrete surface and waterproofing membrane.

Remove loose concrete, cement laitance and other friable material. Grind the concrete surface to obtain a smooth and sound surface. Grinding will remove high spots and reduce surface roughness.

Surface dust must be removed using vacuum/ air blower followed by washing/

moping.

Ideal surface for application is a flat, lightly textures clean concrete surface.

Steel surface (if any) should be free from rust and oil. PVC pipe surface should be roughened using suitable emery paper.

Perform patch work on concrete using polymer modified cement mortar (CM 1:1) admixed with DESMOCRETE DEXTR polymeric cement modifier 5-10 % by weight of the cement content. For more details, refer to DESMOCRETE DEXTR product data sheet.

Priming

Apply one coat of DESMOCRETE POXY-205 on dry surface. Allow it to dry for 12 hours before proceeding further. Kindly refer technical data sheet of DESMOCRETE POXY-205 for more details and application methodology.

Base Coat application

Open the DESMOCRETE PU-BC Part A container and stir it rigorously for couple of minutes. Add Part B and mix it well using an electric hand held stirrer for 1 minute. Add Part C – Aggregate Powder and mix it well in similar fashion. Apply the base coat on well primed surface using wiper. While the base coat is still wet, typically between 10-15 minutes from the time Part A and Part B was mixed, sprinkle Anti-Skid aggregate uniformly and generously onto the wet coat, such that the base coat is completely submerged under Anti-Skid aggregate layer. Allow it to cure for 12 hours before proceeding further. Remove the excess Anti-Skid aggregate from surface using vacuum.

Top Coat application

Open the DESMOCRETE PU-CP15 Part A container and stir it rigorously for couple of minutes. Add Part B and mix it well using an electric hand held stirrer for 1-2 minutes. Apply the top coat on base coat layer using wiper. Allow it to cure for 24 hours before proceeding further. Use spike shoes for movement over wet coating to avoid shoe marks. Apply polyurethane based demarcation on cured top coat as per requirement

Cleaning

Use PU Thinner for cleaning application tools. Avoid contact of PU Thinner with skin and eyes.

Storage

Store in cool, dry and under shed. Avoid extreme temperatures. DESMOCRETE PU-CP15 performs well for at least 12 months from the date of manufacture. Packs once opened have to be consumed immediately.

Health and Safety

This is a solvent based system and care should be taken to avoid inhalation of spray mist or vapour as well as contact between the wet paint and exposed skin or eyes. Wear safety goggle and hand gloves while handling the product. In case of contact with skin, wash immediately with soap water. If problem persist, seek medical assistance.

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