

# MONNELI EPOFLOOR P 2500

Flexible, Skid-Proof, Watertight Protection Flooring System

## Description

EPOFLOOR P2500 is a specially formulated polyurethane-based traffic deck system comprising a primer, waterproof fairing coat and a UV resistant wearing course specifically designed to create a remarkable protection for both new and existing heavily trafficked areas.

## Advantages

- Excellent resistance to wide range of chemicals.
- Impervious seamless finish
- Durable and low maintenance cost
- Excellent UV Resistance
- Flexible with superior skid resistance
- Available in wide variety of colors

## Uses

EPOFLOOR P2500 is a multi-layer deck protection system recommended for floors that requires durable abrasion-resistant finish, such as:

- Car parks
- Driveways and ramps
- Industrial manufacturing units
- Warehouses

## Instruction for Use

### Surface Preparation

The surface should be sound, clean, dry and free from loose and flaking materials, efflorescence, laitance, curing compounds, dirt, oil, grease or other contaminants. Mechanical methods like grinding or grit/captive blasting in order to provide a suitable profiled open textured surface is strongly recommended.

New concrete or cementitious surfaces should be at least 28 days old and have moisture content not exceeding 5%. Old or existing floor should be refurbished mechanically to ensure clear sound substrate.

Surface irregularities and blow holes shall be repaired with EPOFINISH C, a solvent free epoxy resin repair mortar.

Allow the applied material to harden. After all preparation is complete, ensure dust is removed from the surface using an industrial vacuum.

## Application

### Primer

In many cases, priming is not required provided that the substrate is sound and non-porous. Substrates that are porous should be primed with PRIMER POXY, a solvent based epoxy primer. Apply the primer to the prepared substrate at a wet film thickness of 100-150 microns. For highly porous substrates, two coats can be applied.

Broadcast QUARTZO No. 2 at a rate of 0.4 to 1.0 kg/m<sup>2</sup> while the primer is still wet. Allow the applied

## Epo floor P 2500 System Components

PRIMER POXY	Solvent Based Epoxy Primer
EPOFLOOR E250	High Performance Epoxy Floor Coating
QUARTZO NO. 2	Graded Aggregate (0.3-0.9 mm)
EPOFLOOR UV 2	Two Component U.V stable, wear resistant Polyurethane Coating

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**DUBAI**  
**ABU DHABI**  
**KSA**  
**QATAR**  
**ITALY**

P.O. Box 123808 - Dubai, UAE Tel. +971 4 8803488, Fax +971 4 8803450  
P.O. Box 127326 - Abu Dhabi, UAE Tel. +971 2 5511949, Fax +971 2 5511749  
P.O. Box 335896 - Code: 11383 - Riyadh, KSA Tel. +966 1 2654277, Fax +966 1 2654335  
P.O. Box 24878 - Doha, Qatar Tel. +974 4006 5791, Fax +974 4006 5899  
Z.I. Ponte d'Assi - 06024, Gubbio (PG) Tel. +39 75 9221297, Fax +39 75 9221174  
[colmef@colmef.com](mailto:colmef@colmef.com) - [www.colmef.com](http://www.colmef.com)

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product to cure for 16 hours. Remove the excess sand. Remove loose or prominent particle using a trowel then clean the substrate with a vacuum.

#### Intermediate Coat

Apply EPOFLOOR E250 mixed product on the primed surface with a wet film thickness of 200-250 microns.

Allow the product to cure for 12-16 hours.

#### UV Top Coat

To provide a UV resistant coating to the system and to enhance durability performance, apply one coat of EPOFLOOR UV2 at a wet film thickness of 140 microns. Allow curing for a period of 24 hours prior to opening for traffic.

#### Cleaning

Clean tools with SOLVENTE 10 promptly before material hardens. Cured material must be mechanically removed.

#### Recommendations

- EPOFLOOR P 2500 should be applied to the prepared floor after a curing of 28 days or more has elapsed.
- EPOFLOOR P 2500 should not be applied to the following substrates: damp substrates, asphalt, PVC tiles or sheets, hardboard / chipboard
- Do not apply EPOFLOOR P 2500 when the humidity exceeds 90%
- Make sure that the substrate temperature is +3°C higher than the dew point

### Technical Data

PRIMER POXY	
PROPERTIES	RESULT
Appearance	liquid
Color	Amber
Mix Density at 25°C	0.96 kg/L
Pot-life time at 25°C	90 minutes
Recoat after	8 hours at 30°C
Bonding Strength	Greater than cohesive strength of concrete substrate

EPOFLOOR E250	
PROPERTIES	RESULT
Appearance	liquid coating
Color	Refer to Colmef Color Chart
Viscosity at 25°C	1500 MPas
Density at 25°C	1.42 kg /L
VOC	8.0 g/L
Solid Content	100 %
Pot-life time at 25°C	60 minutes
Bond strength (ASTM D 4541)	2.0 N / mm <sup>2</sup> Concrete Failure
Compressive strength (ASTM C 579)	72 N / mm <sup>2</sup>
Flexural strength (ASTM C 580)	36 N / mm <sup>2</sup>
Tensile strength (ASTM C 307)	20 N / mm <sup>2</sup>
Abrasion Resistance (ASTM D 4060)	68 mg, 1000 cycles
Water Absorption (BS EN 12390)	0.05%
Open to vehicular traffic at 25°C	48 hours
Service Temperature	-5°C to +80°C

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P.O. Box 335896 - Code: 11383 - Riyadh, KSA Tel. +966 1 2654277, Fax +966 1 2654335  
P.O. Box 24878 - Doha, Qatar Tel. +974 4006 5791, Fax +974 4006 5899  
Z.I. Ponte d'Assi - 06024, Gubbio (PG) Tel. +39 75 9221297, Fax +39 75 9221174  
[colmef@colmef.it](mailto:colmef@colmef.it) - [www.colmef.it](http://www.colmef.it)

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EPOFLOOR UV2	
PROPERTIES	RESULTS
Appearance	Liquid Coating
Color	See Color Chart (Special colors are available on request)
Density at 25°C	1.2 kg/L
Adhesion Strength (ASTM D4541)	>2.5N/mm <sup>2</sup>
Abrasion Resistance (ASTM D4060)	120mg/1000 cycles
Pot life at 25°C	60 min

All values are subject to 5-10 % tolerance

### Packaging

PRIMER POXY	-	15 Liter pail
EPOFLOOR E250	-	15 Liter pail
EPOFLOOR UV2	-	15 Liter pail
QUARTZO NO. 2	-	25 kg bag
SOLVENTE 10	-	20 Liter Pail

### Consumption

	5-6 m <sup>2</sup> /Liter depending on surface texture and porosity
PRIMER POXY	
EPOFLOOR E250	4-5 m <sup>2</sup> /Liter
EPOFLOOR UV2	4 m <sup>2</sup> /Liter
QUARTZO NO. 2	0.4 kg/m <sup>2</sup>

### Storage

Store the product in dry closed place with temperature between +10°C to +35°C. Storage above this temperature may reduce shelf life. In closed containers and in dry environment, the products maintain its stability for 12 months.

### Health & Safety

Avoid contact with skin & eyes. Protective clothing such as gloves & safety goggles should be worn during application. 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. Ensure adequate ventilation at site and avoid inhalation of vapours.

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