

MONNELI EPOFLOOR P 1200

Waterproofing and Protective, Polyurethane Based Traffic Deck Coating System

Product Description

A multi-layer, UV resistant, flexible Polyurethane based system for the protection of concrete floors subject to high levels of traffic, impact and abrasion.

Uses

EPOFLOOR P1200 is recommended for floors that require durable abrasion-resistant finish such as:

- Car park decks
- Ramps
- Loading bay areas
- Production & assembly halls
- Hospitals
- Schools
- Warehouses
- Service corridors
- Aircraft hangars

Advantages

- Seamless and water tight
- Durable, low maintenance
- High mechanical strength and abrasion resistance
- Flexible system which reduces the risk of cracking
- Good chemical resistance for mild acid and alkali

Epoefloor P1200 System Components

PRIMER PU	Solvent based epoxy primer
EPOFLOOR P360	Two component self levelling solvent free tough floor coating
EPOFLOOR P440	Two component aliphatic PU tough coat
QUARTZO 2	Graded aggregate (0.3 – 0.9 mm)

Instructions 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, a solvent free epoxy resin repair mortar. Allow the repair material to harden.

Expansion joints shall be repaired using EPOMORT HS, a High strength solvent free epoxy mortar. After all preparation is complete, ensure dust is removed from the surface using an industrial vacuum.

Application

Priming

Apply PRIMER PU, a solvent based epoxy primer using a suitable roller at the rate of 6-8m²/Liter depending on the profile and porosity of the substrate. Allow the applied coat to cure until it is tack free.

The primer should be left to achieve a tack-free condition for 8-12 hours before applying the top coat. If the substrate is excessively porous, a second coat of primer must be applied again.

Intermediate Coat (Smooth Finish)

Mix components A and B of EPOFLOOR P 360 together adding 15 kg QUARTZO NO. 2 whilst mixing for a minimum of 2 minutes, using a slow speed electric mixer at 300-400 rpm. Work the mixed products round the mixing pail to ensure it scrapes the side and bottom of the pail.

Pour the material onto the primed surface in pools or as a long strip at a consumption rate of 2.5-4kg/ m². Spread the mixture on the floor with the use of trowel, pin screed or notched trowel.

Roll the material within 5 minutes after it is leveled in order to release trapped air using a spike roller. Allow to cure for 12 hours at 25°C before allowing light traffic.

Intermediate Coat (Rough Finish, Anti-Slip)

Apply EPOFLOOR P 360 mixed product on the primed surface at a rate of 2.5-3kg/ m². Once the product is leveled, broadcast QUARTZO NO. 2 at a rate of 2 to 3 kg/m².

Allow the applied product to cure (minimum 5 hours), then remove the excess sand. Remove the prominent particle using a trowel then clean the substrate with a vacuum. Apply one more coat of EPOFLOOR P 360 at a rate of 2.5-4kg/m²

Top Coat

To provide a UV resistant coating to the system and to enhance durability performance, apply one coat of EPOFLOOR P440 at a rate of 0.10-0.12 kg/ m² per coat.

Recommendations

- EPOFLOOR P 1200 should be applied to the prepared floor after a curing of 28 days or more has elapsed.
- EPOFLOOR P 1200 should not be applied to the following substrates: damp substrates, asphalt, PVC tiles or sheets, hardboard / chipboard.
- Do not apply EPOFLOOR P 1200 when the humidity exceeds 90%.
- Make sure that the substrate temperature is 3°C higher than the dew point.

Cleaning

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

Technical Data

Properties	Results
PRIMER PU	
Appearance	Clear liquid coating
Color	Amber
Density at 25°C	0.95 kg/L
Adhesion strength	Greater than cohesive strength of typical good quality concrete substrate
Recoating interval at 25°C	8 – 12 hours

All values are subject to 5-10 % tolerance

EPOFLOOR P360	
Appearance	Liquid coating
Color	Grey, light grey, red, green, blue (further colors are available on request)
Density at 25°C	1.45 kg/L
VOC	12.0 g/L
Solid content	100%
Viscosity at 25°C, 50 s-1	8,000 cps
Elongation (ASTM D412)	Up to 40%
Tensile strength (ASTM D412)	25 N/mm ²
Tear strength (ASTM D 624)	>40 N/mm ²
Compressive strength (ASTM C 579)	50 N/mm ²
Adhesion strength	>2.5 N/mm ²
Shore D hardness	75
Full cure time	7 days
Recoating interval	12 – 24 hours
Working time	>30 min
Permissible ambient and substrate temperature	+8°C - 30°C
Maximum permissible RH	75%

EPOFLOOR P440	
Appearance	Liquid coating
Color	Refer to Colmef Color Chart
Density at 25°C	1.25 kg/L

All values are subject to 5-10 % tolerance

Packaging

PRIMER PU	15 liter kit
EPOFLOOR P360	15 liter kit
EPOFLOOR P440	15 liter kit
QUARTZO 2	25 kg bag
SOLVENTE 10	20 liter pail

Consumption

PRIMER PU	6-8m ² /Liter depending on surface texture and porosity of the surface
EPOFLOOR P360	2.5-4kg/ m ²
EPOFLOOR P440	0.10-0.12 kg/ m ² / coat
QUARTZO 2	15kg / unit of EPOFLOOR P360

System Thickness

From 1.5 mm – 2.5 mm

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 product maintains 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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