

MONNELI EPOFLOOR P 1160

Waterproofing and Protective, Polyurethane Based Traffic Deck Coating System

Product Description

A UV stable polyurethane based multi-component car park decking system for exposed and intermediate traffic decks where crack bridging and waterproofing properties are required.

Uses

EPOFLOOR P1160 can be used as a protective trafficable wear resistant floor coating for variety of applications such as:

- Car park decks
- Ramps
- Mechanical and plant rooms
- Trafficable flat roof
- Workshops
- Factories
- Sport stadiums waterproofing coatings

Advantages

- Excellent abrasion resistance
- Excellent crack-bridging capacity
- Excellent UV resistance
- Even anti-skid finish
- Formulated to suit Middle East conditions

Epo floor P1160 System Components

PRIMER PU	Solvent based epoxy primer
EPOFLOOR CF	Two component tough elastomeric PU coating
EPOFLOOR P380	Single component polyurethane protective traffic coating

EPOFLOOR P500	Single component polyurethane UV resistant traffic coating
EPOFLOOR LM	Line marking coating

Instructions for Use

Surface Preparation

The surface of the concrete to be prepared shall be sound, clean and uncontaminated.

This preparation shall be such as to leave a sound exposed concrete surface free from dust, loose particles and any deleterious matter. If the concrete surface is defective or has laitance, it must be cut back to a sound base. Excess laitance deposits are best removed by light mechanical scrubbing, grinding or grit/captive blasting followed by vacuum cleaning to remove dust debris.

Any blowholes, chipping or similar surface imperfections shall be repaired using EPOFINISH C, a solvent free epoxy resin repair mortar.

Expansion joints shall be repaired using EPOMORT HS, a High strength solvent free epoxy mortar.

New concrete or cementitious surfaces should be allowed to cure and have moisture content not exceeding 5%. Old or existing floor should be refurbished mechanically to ensure clear sound substrate.

Application

Priming

Apply PRIMER PU, a high performance 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

EPOFLOOR CF is supplied in two pre-weighed packs (Component A – Base and Component B – Hardener) which are ready for immediate in-situ use. Stir in both components before use.

Add the hardener (Part B) to the Base (Part A) container and mix for 20-30 seconds using a heavy duty, slow speed drill fitted with a mixing paddle.

Transfer the mixed material to another pail and again remix for 30 seconds. Pour EPOFLOOR CF onto the primed surface at a rate minimum of 2.5 m²/Liter and spread evenly with a notched trowel. Continuous spiking with a spiked roller should be done to remove all entrapped air. Spiking adjacent layers is recommended at 50% overlaps. Spiking shall stop as soon as the coating starts to set.

While the coating is still wet, broadcast QUARTZO NO.2 at approximately 0.6-2.0 kg/m² (depending on the wearing coat thickness). After 24 hours cure, excess aggregate shall be brushed away.

Protective Traffic Coating

Stir EPOFLOOR P380 properly to ensure uniformity of color before application. Apply by roller or airless spray to the tack-free surface at the minimum rate of 4.0 m² / Liter per coating.

UV Top Coat

To provide a UV resistant coating to the system and to enhance durability performance, apply one coat of EPOFLOOR P500 at a minimum rate of 4.0 m²/Liter for pedestrian traffic and 3.0 m²/Liter for vehicular traffic by roller or airless spray.

Line Marking Coating

Stir EPOFLOOR LM thoroughly prior to application. It can be applied with brush, roller or airless spray gun at a rate of 5m²/liter (200 microns wet). Dilute the product with 5-10% SOLVENTE 10, if airless spray gun is used. The nozzle tip of the gun should be 4 to 6 mm. Apply the paint with a pressure of 30-40 psi.

Cleaning

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

Recommendations

- EPOFLOOR P 1160 should be applied to the prepared floor after a curing of 28 days or more has elapsed.
- EPOFLOOR P 1160 should not be applied to the following substrates: damp substrates, asphalt, PVC tiles or sheets, hardboard / chipboard.
- Do not apply EPOFLOOR P1160 when the humidity exceeds 90%.
- Make sure that the substrate temperature is +3°C higher than the dew point.

Technical Data

Properties	Results
PRIMER PU	
Pot life at 25°C	60 minutes
Density at 25°C	0.96 kg/L
Recoat time at 25°C	8- 12 hours
EPOFLOOR CF	
Pot life at 25°C	45 minutes
Mix density at 25°C	1.55 kg/L
Elongation at break	> 70%
Tensile strength	6 N / mm ²
Shore hardness (A)	60
Initial hardening (dry & touch)	5 hours
Complete hardening	7 days
Application temperature	+5°C to +35°C
Service resistance	-5°C to +80°C

EPOFLOOR P380	
Viscosity at 25°C, 50 s-1	800 MPas
Density at 25°C	1.5 kg/L
Elongation	Up to 40%
Tensile strength	25 N/mm ²
Tear strength	45 N/mm ²
Solid content	83%
Open time at 25°C	Minimum 45 min Maximum 4 hours
Open time at 25°C	Minimum 45 min Maximum 4 hours
Open to foot traffic at 25°C / 50% RH	6 - 8 hours
Open to vehicular traffic at 25°C / 50% RH	16 hours
EPOFLOOR P500	
Density at 25°C	1.3 - 1.4 kg/L
Elongation	Approximately 200%
Tensile strength	Approximately 4.5N/mm ²
Relative atmospheric Humidity	40-90%
Application temperature	+5°C to +35°C
Water vapor diffusion resistance factor	Approximately 3000
Capable of bearing loads	After 48 hours
Tack-free	After Approximately 30 minutes
EPOFLOOR LM	
Solid content	65%
Density at 25°C	1.4 kg/L
Touch dry at 25°C	10 minutes
Application temperature	+5°C to +35°C
Recommend minimum dry film thickness	200 microns

All values are subject to 5-10 % tolerance

Packaging

PRIMER PU	15 liter kit
EPOFLOOR CF	15 liter kit
EPOFLOOR P 380	15 liter pail
EPOFLOOR P 500	15 liter pail
EPOFLOOR LM	15 liter pail
QUARTZO NO. 2	25 kg bag
SOLVENTE 10	20 liter pail

Consumption

PRIMER PU	6-8 m ² /Liter depending on surface texture and porosity
EPOFLOOR CF	2.5 m ² /Liter at 400 microns DFT
EPOFLOOR P 380	from 4.0m ² /Liter at 200 microns DFT
EPOFLOOR P 500	3.0 m ² / Liter coat (anti-slip) 4.0 m ² / Liter/coat (smooth) at 200 microns DFT
EPOFLOOR LM	5.0m ² /Liter for 100 micron, (dry) depending on the surface conditions and method of application
QUARTZO NO. 2	0.6-2.0 kg/m ² depending on application

Storage

Store EPOFLOOR P 1160 in dry and covered shed. Exposure to extreme temperature and direct sun light results in the deterioration of the product's efficiency and reduces its shelf life.

If stored as recommended its shelf life would be 12 months from the manufacturing date.

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 vapors.

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