

MONNELI EPOFLOOR P 1140

Seamless, Polyurethane Traffic Deck Coating System

Product Description

A multi-layered, seamless, UV stable, polyurethane deck coating system. It is designed for floors where superior impact and wear resistance are required.

Uses

EPOFLOOR P 1140 can be used as a protective trafficable wear resistant floor coating in variety of application such as:

- Car park decks and ramps
- Mechanical and plant rooms
- Trafficable flat roof
- Workshops and factories

Advantages

- Excellent wear resistance
- Excellent UV resistance
- Resistant to acids and alkalis of medium concentrations, mineral oil products and solvents

Epo floor P1140 System Components

PRIMER PU	Solvent based epoxy primer
EPOFLOOR P380	Single component polyurethane protective traffic coating
QUARTZO 2	Graded aggregate (0.3 – 0.9 mm)
EPOFLOOR P500	Single component polyurethane UV resistant traffic coating
EPOFLOOR LM	Line marking coating

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.

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 high performance solvent based epoxy primer at the rate of 6-8m²/liter.

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 shall be applied again.

For Anti Slip Surface

Broadcast QUARTZO No. 2 at a rate of 0.4 to 1.0 kg/m² while the primer is still wet. Allow the applied 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

Stir properly EPOFLOOR P380 to ensure uniformity of color before application. Product will be ready for use. Apply by roller or airless spray to the primed tack-free surface at a minimum consumption rate of 4.0 m²/ Liter per coat.

For ramps and turning areas, apply an additional coat of EPOFLOOR P380 at the same rate.

Top Coat

Stir EPOFLOOR P500 properly to ensure uniformity of color before application.

To provide a UV resistant coating to the system and to enhance durability performance, apply one coat of EPOFLOOR P 500 at a minimum rate of 4.0 m²/Liters for pedestrian traffic and 3.0m²/Liters for vehicular traffic by roller or airless spray.

Line Marking Coating

Mix the content of the container before application.

EPOFLOOR LM can be applied by brush, roller, and airless spray at the rate of 5 m²/Liters for 200 micron DFT (Dry Film Thickness).

Recommendations

- EPOFLOOR P1140 should be applied to the prepared floor after a curing of 28 days or more has elapsed.
- EPOFLOOR P1140 should not be applied to the following substrates: damp substrates, asphalt, PVC tiles or sheets, hardboard / chipboard.
- Do not apply EPOFLOOR P1140 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	Liquid
Color	Amber
Density at 25°C	0.96 kg/L
Adhesion strength	Greater than cohesive strength of typical good quality concrete substrate
Recoating interval at 25°C	8 – 12 hours
EPOFLOOR P 380	
Viscosity at 25°C, 50 S-1	800 cps
Density at 25°C	1.35 – 1.4 kg/L
Elongation (ASTM D412)	Up to 40%
Tensile strength (ASTM D412)	Up to 25 N/mm ²
Solid content	83%
Open time at 25°C	Minimum 45 min. Maximum 4 hours
Tear strength (ASTM D624)	45 N/mm ²
Open to foot traffic at 25°C / 50% RH	6 - 8 hours
Open to vehicular traffic at 25°C / 50% RH	16 hours
EPOFLOOR P 500	
Density at 25°C	1.3 - 1.4 kg/L
Elongation (ASTM D412)	200%
Tensile strength (ASTM D412)	4.5N/mm ²
Relative atmospheric humidity	40-90%
Application temperature	+5°C to +35°C
Water vapor diffusion resistance factor	Approx. 3000
Capable of bearing loads	After 48 hours
Tack-free	After approx. 30 minutes

Properties	Results
EPOFLOOR LM	
Solid content	65%
Density at 25°C	1.45 kg/L
Touch dry at 25°C	Approx. 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 kits
EPOFLOOR P 380	15 liter pail
EPOFLOOR P 500	15 liter pail
QUARTZO NO. 2	25 kg bag
SOLVENTE 10	20 liter pail
EPOFLOOR LM	15 liter

Consumption

PRIMER PU	6-8 m ² /Liter depending on surface texture and porosity
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 m ² / Liters
QUARTZO NO. 2	0.6-2.0 kg/m ² depending on application

Storage

Store EPOFLOOR P 1140 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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