

MONNELI EPOFLOOR P 1100

Seamless, Flexible, Polyurethane Flooring System

Product Description

A Polyurethane based flooring system designed to be applied for commercial, semi-industrial and institutional applications.

EPOFLOOR P 1100 provides high durability and excellent long term comfortable floor coatings system.

Uses

EPOFLOOR P 1100 is used as a sound comfortable flooring system in areas where heavy pedestrian traffic is expected such as:

- Corridors
- Changing rooms
- Hospitals
- Cafeterias
- Offices
- Schools
- Hotels
- Shops and supermarkets
- Health clubs
- Multipurpose halls
- Public areas

Advantages

- Seamless and easy application
- Durable, low maintenance
- Good mechanical strength, abrasion resistance and general chemical resistance
- Watertight

Epofloor P1100 System Components

PRIMER PU	Solvent based epoxy primer
EPOFLOOR P320	Two component self levelling , solvent free, tough elastic floor coating
QUARTZO No. 1	Graded aggregate (0-300 micron)
EPOFLOOR UV 2	Two component U.V. stable, wear resistant Polyurethane 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 using a suitable roller at the rate of 6-8 m²/Liters per coat according to the porosity of the support.

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

Intermediate Coat

EPOFLOOR P320 is supplied in two pre-weighed packs (Component A – Base and Component B – Hardener) which are ready for immediate in-situ use. Stir both components individually before use.

Mix components A and B of EPOFLOOR P320 together for 2 minutes. Add QUARTZO No. 1 at a weight ratio of 1 (Quartzo): 3 (Resin) under constant stirring. Use a slow speed (400 rpm) drill with a spiral mixing head. Work the mixer round the mixing pail to ensure it scrapes the side and bottom of the pail. Pour part of the mixed material into a fresh container and mix for a further 30 seconds.

Pour the mixed material into the primed surface in pools or as large strip. Spread the material evenly to the desired thickness using a notch trowel. Continuous spiking with a spiked roller is to be done. Allow to cure overnight.

Top Coat

EPOFLOOR UV2 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. Transfer the entire contents of component B (Hardener) into the component A (Base) can and mix with low speed drill and paddle (200 – 300 rpm) for 2 – 3 minutes till obtaining a mix with uniform consistency. Scrape the sides and bottom of the can during mixing to ensure homogeneity.

To provide a UV resistant coating to the system and to enhance durability performance, apply one coat of EPOFLOOR UV2 at a rate of 6m² /Liter at 150 micron thickness over smooth surface.

Recommendations

- EPOFLOOR P 1100 should be applied to the prepared floor after a curing of 28 days or more has elapsed.
- EPOFLOOR P 1100 should not be applied to the following substrates: damp substrates, asphalt, PVC tiles or sheets, hardboard / chipboard
- Do not apply EPOFLOOR P 1100 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 320	
Appearance	Liquid
Color	Grey
Density at 25°C (A+B)	1.40 kg/L
VOC	15.0 g/L
Tensile strength (ASTM D412)	>9 N/mm ²
Elongation at break (ASTM D412)	180%
Tear strength (ASTM D624)	>35 N/mm
Abrasion resistance (ASTM D 4060)	68 mg/ 1000 cycles
Shore A hardness	75
Viscosity at 25°C	3500 cps
Pot Life at 25°C	30 minutes
Recoating interval at 25°C	12 – 24 hours
Permissible ambient and substrate temperature	8°C - 30°C
Maximum permissible RH	75%

EPOFLOOR UV2	
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 ²
Abrasion resistance (ASTM D4060)	120mg/1000 cycles
Pot life at 25°C	60 min

All values are subject to 5-10 % tolerance

Packaging

PRIMER PU	15 liter kit
EPOFLOOR P 320	15 liter kit
EPOFLOOR UV2	15 liter kit
QUARTZO NO. 1	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 P 320 with QUARTZO NO.1	1m ² / 2 Liter at 2mm thickness
EPOFLOOR UV2	6 m ² /Liter at 150 micron DFT
QUARTZO NO. 1	weight ratio of 1 (Quartzo) : 3 (Resin)

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

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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