

MONNELI EPOFLOOR E2000

High Build Solvent Free Epoxy Flooring System

Product Description

A medium to heavy duty solvent free pigmented epoxy coating system designed for the incorporation of skid resistant aggregates within its surface. It provides high durability and excellent long term defenses against abrasion, impact and general chemical spillages. It is a floor coating system for basements and ground floor car parks which exhibit little or no structural movements.

Uses

EPOFLOOR E2000 is designed as a protective wear resistant coating system for a wide range of industrial environment, new and existing trafficked areas particularly requiring durability easy maintenance. It provides a seamless coating for concrete to stand against vehicle related spillages, cleaning agents, oils, greases, and mild chemicals. Typical areas of application are as follows:

- Parking decks, garages and car wash areas
- Aircraft hangers and maintenance areas
- Warehouses, industrial floors
- Pedestrian walkways
- Buildings, bridge decks and other concrete structures in general

Advantages

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

Instructions for Use

Surface Preparation

The surface of the concrete to be repaired 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, a solvent free epoxy resin repair mortar. Expansion joints shall be repaired using EPOMORT HS, a high performance 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.

Priming

The Highly porous concrete must be treated with PRIMER POXY FF, a solvent-free high performance epoxy primer. The primer should be applied by brush or roller on to the cleaned surface area (particularly hidden surfaces) at a rate of 5-6 m²/Liter.

The primer should be left to achieve a tack-free condition before applying the top coat. A second coat of primer may be required if the substrate is excessively porous.

Mixing

EPOFLOOR E2000 is supplied in 3 pre weighed packs (Base, Hardener and graded filler) ready for immediate on site mixing. Partial mixing is not allowed.

EPOFLOOR E2000 must be mixed at the moment of use. The base (Component A) should be mixed for two minutes with a heavy duty, slow speed drill fitted with a mixing paddle at low number of turns (200-300 RPM) until a homogenous mix is obtained.

Pour the hardener (Component B) into the base mixture and mix for another two minutes. Add the filler (Component C) and mix until uniform consistency is achieved.

Scrape the sides and bottom of the container during mixing to ensure homogeneity.

Improper mixing may result in product failure. Once mixed, the material must be used within its pot life.

Application

1st Coat Application

The mixed material can be applied by brush or roller. However the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained.

While the applied material is still wet, broadcast QUARTZO NO. 2 by hand in an upward motion, to completely blind the base coat. Do not throw the aggregate downward, as this might cause uneven ridges to form.

2nd Coat Application

After the first coat has cured (6-8 hours at +35°C), remove excess QUARTZO NO. 2 with broom or vacuum. Apply a second coat of EPOFLOOR E2000 mixed material by brush or roller to the recommended thickness.

Refer to Table A for consumption rates.

Care should be taken to ensure that a continuous film is achieved and the rough surface caused by the aggregate is completely sealed.

The second coat must be applied within 16 hours at +35°C of application of the first coat.

Table A: System Components

	Application rate Medium Duty	Application rate Heavy Duty
Primer Poxy FF	5.0m ² /L	5.0m ² /L
1st Coat Application EPOFLOOR E2000	4.0m ² /L	2.5m ² /L
Quartzo No. 2	0.60 kg/m ²	2.0 kg/m ²
2nd Coat Application EPOFLOOR E2000	2.7 m ² /L	1.6 m ² /L
Consumption	1.25 m ² /L at 1mm	1.0 m ² /L at 2mm

Cleaning

Tools and equipment should be cleaned with SOLVENTE 10 from Colmef immediately after use. Hardened material should be removed mechanically.

Spillages should be absorbed with sand or sawdust and disposed of in accordance with local regulations.

Technical Data

Properties	Results
Appearance	Liquid coating
Density at 25°C	1.5 kg/L
VOC	12.0g/L
Pot-life time at 23°C	60 minutes
Bond strength (ASTM D 4541)	≥2.0 N/mm ²
Compressive strength (ASTM C 579)	≥85 N/mm ²
Flexural strength (ASTM C 580)	≥30 N/mm ²
Abrasion resistance (ASTM D 4060)	65 mg/1000 cycles
Water absorption (BS EN 12390)	0.1%
Resistance to chemical	Passed
Cure time at 25°C	24 hours
Full traffic use at 25°C	7 days
Service temperature	+5°C - +80°C

All values are subject to 5-10 % tolerance

Packaging

PRIMER POXY FF	-	15 liter kit
EPOFLOOR E 2000	-	26 kg kit
QUARTZO NO. 2	-	25 kg bag
SOLVENTE 10	-	20 liter pail

Storage

Keep in tightly closed containers and in sheltered and dry place with a temperature between +5°C and +35°C. Shelf life is 12 months from date of production if stored properly.

Health & Safety

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary. In case of contact with skin, rinse with water and again wash thoroughly with soap and water.

In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly.

If ingested, obtain medical attention immediately. Do not induce vomiting.

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