

MONNELI EPOFLOOR P 320

Two Component Self-Leveling, Solvent Free, Elastic Floor Coating

Description

EPOFLOOR P 320 is a two component heavy duty solvent free, polyurethane based self-leveling floor coating designed to provide excellent resistance to abrasion, chemical attack and other physical aggression.

Advantages

- High abrasion resistance
- Crack bridging
- Very good chemical resistance
- Easy to apply
- Easy to clean and maintain
- Excellent self-leveling properties
- Can be applied on asphalt
- Low emission
- High degree of walking comfort
- Solvent free, low odor
- Outstanding mechanical properties

Uses

EPOFLOOR P 320 can be used to build a multi-layer floor coating systems in areas such as:

- Hospitals
- School
- Libraries
- Offices
- Cafeterias
- Shops
- Supermarkets
- Health clubs
- Multi-purpose halls
- Public areas

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 S, 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.

Priming

Highly porous concrete or concrete containing micro-silica must be treated with PRIMER PU, a high performance Polyurethane primer. PRIMER PU shall be used as a primer coat for polyurethane based car park deck systems.

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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/L.

The primer should be left to achieve a tack-free condition for 6-8 hours before applying the top coat. A second coat of primer may be required if the substrate is excessively porous.

Metal surface must be perfectly cleaned up to white metal by sand blasting, and then treated with one coat of PRIMER PU before the oxidation process begins again.

Mixing

EPOFLOOR P 320 is supplied in two pre-weighed packs (Component A – Base and Component B – Hardener) which are ready for immediate in-situ use.

Pre-condition the Components A and B to a temperature of approximately 15-25°C before mixing.

The contents of the base container should be mixed for 1-2 minutes with a proprietary paddled drill. Transfer the entire content of Component B into the Container A and mix for further 2-3 minutes without causing air bubbles till a homogeneous mix is obtained.

Application

Pour the mixed material unto 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.

During application of EPOFLOOR P 320, QUARTZO No. 1 may be added to the above mix at a weight ratio of 1 (Quartzo):3 (Resin), under constant stirring.

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.

Recommendations

- The curing time of EPOFLOOR P 320 is influenced by the ambient, material and ambient temperatures.
- At high temperatures, chemical reactions are speeding up thus shortens the pot life, open time and the curing times.
- EPOFLOOR P 320 should not be applied on surfaces with a risk of rising dampness.
- Don't mix more material than can be used within the pot life of mixture.
- Incorrect assessment treatment of cracks may lead to a reduced service life and reflective cracking.
- EPOFLOOR P 320 is not designed to be exposed to external applications.

Technical Properties

Properties	Result
Appearance	Liquid Coating
Color	Refer Colmef Color Chart
Viscosity at 25°C	2000 mPa.s
Density at 25°C	1.4 kg/L
Pot-life time at 25°C	30 minutes
Bond strength (ASTM D 4541)	>2.0 N / mm ²
Elongation at break (ASTM D412)	180mm
Tensile strength (ASTM D412)	7.0 N / mm ²
Tear Strength (ASTM D 624)	> 35 N/mm
Shore A Hardness at 7days (ASTM D 2240)	75
Recoating Interval at 25°C	Minimum 12 hours Maximum 2 days
Fully cured at 25°C	7 days
Service Temperature	-5°C to +80°C

All values are subject to 5-10 % tolerance

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Consumption

Minimum 2.5 kg/m² (total including sand)

Packaging

EPOFLOOR P320 is available in 4 and 15 Liter kits.

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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