

MonniTop P125

Polyurethane Coating for Concrete Floors

Product Description

MonniTop P125 is two component high solids polyurethane coating. It is used as a chemical and abrasion resistant coating for pedestrian or traffic flooring on concrete, wooden and metal surfaces.

Uses

MonniTop P125 can be applied on wide range of surfaces, such as concrete, wood, steel, asbestos, etc.

It can be used for coating concrete floor in the following:

- ▶ Alimentary
- ▶ Pharmaceutical industries
- ▶ Warehouses
- ▶ Mechanical rooms
- ▶ Car parks
- ▶ Showrooms
- ▶ Workshops

Advantages

- ▶ Glazed, flexible and with excellent resistance against abrasion
- ▶ Excellent abrasive resistance specially when used with quartz on car park deck
- ▶ High weather resistant
- ▶ Excellent impact resistance
- ▶ Excellent resistance against diluted acid solutions, oils, fuels and aggressive vapors

Usage Instructions

Surface Preparation

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

Weathered masonry and soft or porous cement board must be cleaned or brush blasted to remove loosely adhering contamination and to get to a hard and firm surface.

Surface irregularities and blow holes shall be repaired with MonniFinish EC, a solvent free epoxy fairing coat. Allow the applied material to harden. After all preparation is complete, ensure dust is removed from the surface using an industrial vacuum.

For metal floors, remove all corrosion and mill scale to produce a clean metallic surface.

Priming

Highly porous concrete 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.

The primer should be applied by brush or roller on to the cleaned surface area (particularly hidden surfaces) at a rate of 5-6 L/m².

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

MonniTop P125 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. 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.

Application

Apply two coats of MonniTop P125 with a roller, squeegee or airless spray to the primed tack free surface.

Each coat is applied at a rate of 4-5m²/Liter achieving a thickness of 150-200 microns/coat. The total dry film thickness of the coating shall be a minimum of 400microns.

For anti-slip flooring, broadcast silica sand (QUARTZO 2) on the first coat to achieve leatherette like finish.

For heavy traffic areas such as drive lanes, ramps, turn areas, or other areas subjected to high abrasive traffic, apply a third coat of MonniTop P125.

Cleaning

Tools and equipment should be cleaned with Monneli Solvent 10 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

- ▶ MonniTop P125 should be applied to the prepared floor after a curing of 28 days or more has elapsed.
- ▶ Do not use during rainy days or if temperature is less than +5°C
- ▶ Application should not be carried out when atmosphere humidity exceeds 90%, or when the surface to be coated is less than +3°C above the dew point
- ▶ MonniTop P125 should not be applied to the following substrates: damp substrates, asphalt, PVC tiles or sheets, hardboard / chipboard

Technical Data

Category	Typical Values
Appearance	Liquid
Color	Grey
Density at 25°C	1.35 kg /L
Solid Content	80%
Viscosity	750 MPas
Pot-life time at 25°C	40 minutes
Adhesion Strength	> 2 N / mm ²
% Elongation (ASTM D412)	> 25%
Tensile Strength (ASTM D412)	12 N / mm ²
Abrasion Resistance (ASTM D4060)	25mg/1000 cycles
Open to foot traffic at 25°C	8 -10 hours
Open to Vehicular traffic at 25°C	24 hours
Completely hardened	7 days

All values are subject to 5-10 % tolerance

Consumption

4-5 m² /Liter per coat depending on surface porosity

Packaging

MonniTop P125 is supplied in two components, 4- and 15-Liter kits.

Life & Storage

Store in dry and covered place out of direct sunlight and protect from high temperature (higher than 25°C). If stored as recommended its shelf life would be 12 months from the manufacturing date.

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.

Legal disclaimer

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