MonniTop P380

Single Component Polyurethane Protective Traffic Coating

Product Description

MonniTop P380 is a high-quality single component, moisture cured polyurethane coating designed for application over pedestrian and vehicular traffic bearing surface. The coating provides a seamless, tough but flexible, abrasion and chemical resistant finish for internal covered areas aggression.

Uses

MonniTop P380 is designed as protective and wear resistant coating for new and existing trafficked areas such as:

- Parking decks
- Mechanical equipment room floor
- Walking decks
- Industrial floors
- Chemical plants
- Tacking warehouses

Advantages

- Highly durable, tough and flexible
- Excellent abrasion resistance
- Good chemical resistance
- Excellent surface finish
- Easy to apply

Usage Instructions

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 scrabbling, grinding or grit/captive blasting followed by vacuum cleaning to remove dust debris.

Any blowholes, chipping or similar surface imperfections shall be repaired using MonniFinish EC, a solvent free epoxy resin repair mortar. Expansion joints shall be repaired using MonniMort HS, 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.

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Priming

Highly porous concrete or concrete containing micro-silica must be treated with MonniPrime PU, a high performance Polyurethane primer. MonniPrime 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 m^2/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.

While the primer is still wet, broadcast QUARTZO NO.2 at approximately 0.6-2.0 kg/m2. Allow to cure for 24 hours. Excess aggregate shall be brushed away.

Mixing

MonniTop P380 should be stirred with a slow speed drill fitted with a mixing paddle to remove any sediment and to ensure uniformity of color. Avoid any air entrapment in the material while mixing. Pre-condition the Components A and B to a temperature of approximately 15-25°C before mixing.

Application

Apply the MonniTop P380 immediate immediately after mixing with a roller, squeegee or by airless spray at the rate of 2-4 m2/lit (total) in 3 coats.

For a slip resistant finish, broadcast non-slip QUARTZO No. 2 into the first coat at 0.5-1.0 kg/m2 within 10 minutes of its application and remove the excess prior to the application of the second coat.

The coating will achieve its full mechanical properties after 7 days of cure after which the floor can be subjected to heavy traffic.

Cleaning

Tools and equipment should be cleaned with Monneli Solvent 10 from Monneli 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

- Do not apply MonniTop P380 when the humidity exceeds 90%
- Make sure that the substrate temperature is 3°C higher than the dew point.
- The curing time of MonniTop P380 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
- MonniTop P380 should not be applied on surfaces with a risk of rising dampness.
- Don't apply the product with imminent rain forecast.
- 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.
- MonniTop P380 is not designed to be exposed to external applications.

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Technical Data

Category	Typical Values
Appearance	Liquid Coating
Color	Grey (other colors are available on request)
Viscosity at 25°C , 50 s-1	800 MPas
Density at 25°C	1.5 kg/L
Solid Content	83%
Elongation	Up to 40%
Tensile strength (ASTM D412)	25 N/mm2
Tear Strength (ASTM D 624)	> 45 N/mm
Open Time at 25°C	Minimum 45 min Maximum 4 hours
Open to Foot Traffic at 25°C / 50% RH	6 - 8 hours
Open to Vehicular Traffic at 25°C / 50% RH	Open to Vehicular Traffic at 25°C / 50% RH

All values are subject to 5-10 % tolerance

Consumption

For 4.0m2/Liter at 200 microns DFT

Packaging

MonniTop P380 is available in 4- and 15-Liter kits.

Life & 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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