

MonniTop P500

Single Component Polyurethane UV
Resistant Traffic Coating

Product Description

MonniTop P500 is a high solid, single component, aliphatic, moisture cure, elastomeric urethane industrial floor coating.

MonniTop P500 cures to a long lasting, maintenance free, tough but flexible floor coating designed for application in heavily trafficked areas.

Uses

MonniTop P500 is used in heavy duty traffic deck systems and is suitable for use in both internal and external application.

MonniTop P500 may be used in the following application:

- ▶ Car park decks(inside/outside)
- ▶ Trafficable flat roofs
- ▶ Traffic ramps
- ▶ Plant rooms
- ▶ Pedestrian walkway
- ▶ Light Engineering workshops

Advantages

- ▶ Excellent abrasion resistance
- ▶ Elastomeric
- ▶ Excellent UV resistance
- ▶ Good chemical resistance
- ▶ Ease of application, single component

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 scrubbling, 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.

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.

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.

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 P500 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.

Application

Apply MonniTop P500 at a minimum rate of 4.0 m²/Liter for pedestrian traffic and 3.0 m²/Liter for vehicular traffic by roller or airless spray.

MonniTop P500 can be applied as a single intermediate coat or as a multi coat sandwich system incorporating aggregates to give a slip resistant finish. Make sure not to exceed the maximum over coating times of the previous coating when applying the product as a top coat or part of a multi coat system. Apply a minimum of two coats.

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 P500 when the humidity exceeds 90%
- ▶ Make sure that the substrate temperature is 3°C higher than the dew point.
- ▶ The curing time of MonniTop P500 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

Technical Data

Category	Typical Values
Appearance	Liquid Coating
Color	Grey (other colors are available on request)
Mix Density at 25°C	1.3 - 1.4 kg/L
Elongation	Approx 200%
Tensile strength	Approx 4.5N/mm ²
Relative Atmospheric Humidity	40-90%
Application Temperature	+5°C to +35°C
Water Vapor Diffusion	Approx. 3000
Resistance Factor	
Capable of bearing loads	After 48 hours
Tack-free	After Approx 30 minutes

All values are subject to 5-10 % tolerance

Consumption

4 3.0 m²/Liter coat (anti-slip), 4.0 m²/Liter/coat (smooth) at 200 microns DFT

Packaging

MonniTop P500 is available in 4- and 15-Liter kits.

Shelf 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.

Legal disclaimer

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VER.1.2019