

MonniTop P 1160

Waterproofing and Protective, Polyurethane Based Traffic Deck Coating System

Product Description

MONNITOP P 1160 is a UV stable polyurethane based multi-component car park decking system for exposed and intermediate traffic decks where crack bridging and waterproofing properties are required.

Uses

MONNITOP P 1160 can be used as a protective trafficable wear resistant floor coating for variety of applications such as:

- ▶ Car park decks
- ▶ Ramps
- ▶ Mechanical and plant rooms
- ▶ Trafficable flat roof
- ▶ Workshops
- ▶ Factories
- ▶ Sport stadiums waterproofing coatings

Advantages

- ▶ Excellent abrasion resistance
- ▶ Excellent crack-bridging capacity
- ▶ Excellent UV resistance
- ▶ Even anti-skid finish
- ▶ Formulated to suit Middle East conditions

MONNITOP P1160 System Components

PRIMER PU	Single Component Polyurethane Primer
MONNITOP CF	Two Component tough elastomeric PU coating
MONNITOP P380	Single Component Polyurethane protective traffic coating
MONNITOP P500	Single Component Polyurethane UV resistant Traffic Coating
MONNITOP LM	Line Marking Coating

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 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 MONNIFINISH C, 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

Apply MONNIPRIME PU, a high performance Polyurethane primer using a suitable roller at the rate of 5-6m²/Liter depending on the profile and porosity of the substrate. Allow the applied coat to cure until it is tack free.

The primer should be left to achieve a tack-free condition for 6-8 hours before applying the top coat. If the substrate is excessively porous, a second coat of primer must be applied again.

Intermediate Coat

MONNITOP C is supplied in two pre weighed packs Component Base and Component Hardener which are ready for immediate in situ use. Prior to both components be used

Add the hardener Part B to the Base Part A container and mix for 30 seconds using a heavy duty slow speed drill fitted with a mixing paddle. Transfer the mixed material to another pail and again remix for 30 seconds. Pour MONNITOP C onto the primed surface at a rate minimum of 1 m² liter and spread evenly with a notched trowel. Continuous spiking with a spiked roller should be done to remove all entrapped air. Spiking adjacent layers is recommended at 10% overlaps. Spiking shall stop as soon as the coating starts to set.

While the coating is still wet broadcast MONNITOP QG at approximately 0.6 - 0.8 kg/m² depending on the wearing coat thickness. After 24 hours cure excess aggregate shall be brushed away.

Protective Traffic Coating

Prior to MONNITOP P30 properly to ensure uniformity of color before application. Apply by roller or airless spray to the tack free surface at the minimum rate of 0.5 m² liter per coating.

UV Top Coat

To provide a UV resistant coating to the system and to enhance durability performance apply one coat of MONNITOP P100 at a minimum rate of 0.5 m² liter for pedestrian traffic and 3.0 m² liter for vehicular traffic by roller or airless spray.

Line Marking Coating

Prior to MONNITOP M thoroughly prior to application it can be applied with brush roller or airless spray gun at a rate of 0.5 m² liter/100 microns wet. Dilute the product with 10% water. If an airless spray gun is used the nozzle tip of the gun should be from 300 to 600 mm. Apply the paint with a pressure of 30 - 40 psi.

Cleaning

Clean tools with water. If not promptly cleaned material hardens. Cured material must be mechanically removed.

Recommendations

- ▶ EPOFLOOR P 1160 should be applied to the prepared floor after a curing of 28 days or more has elapsed.
- ▶ EPOFLOOR P 1160 should not be applied to the following substrates: damp substrates, asphalt, PVC tiles or sheets, hardboard / chipboard.
- ▶ Do not apply MONNITOP P1160 when the humidity exceeds 90%.
- ▶ Make sure that the substrate temperature is +3°C higher than the dew point.

Technical Data

PRIMER PU

PROPERTIES	RESULTS
Pot life at 25°C	60 minutes
Density at 25°C	1.05 kg/L
Dry Solid	100%
Recoat Time at 25°C	6 - 24 hours

MONNITOP CF

PROPERTIES	RESULTS
Pot life at 25°C	45 minutes
Mix Density at 25°C	1.55 kg/L
Elongation at break	> 70%
Tensile Strength	6 N / mm ²
Shore hardness (A)	60
Initial hardening (dry & touch)	5 hours
Complete hardening	7 days
Application temperature	+5°C to +35°C
Service resistance	-5°C to +80°C

MONNITOP P380

PROPERTIES	RESULTS
Viscosity at 25°C, 50 s ⁻¹	800 MPas
Density at 25°C	1.5 kg/L
Elongation	Up to 40%
Tensile Strength	25 N/mm ²
Tear Strength	45 N/mm ²
Solid Content	83%
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	16 hours

MONNITOP P500

PROPERTIES	RESULTS
Mix Density at 25°C	1.3 - 1.4 kg/L
Elongation	Approximately 200%
Tensile Strength	Approximately 4.5N/mm ²
Relative Atmospheric Humidity	40-90%
Application Temperature	+5°C to +35°C
Water Vapor Diffusion Resistance Factor	Approximately 3000
Capable of bearing loads	After 48 hours
Tack-free	After Approximately 30 minutes

MONNITOP LM

PROPERTIES	RESULTS
Solid Content	65%
Density at 25°C	1.45 kg/L
Touch dry at 25°C	Approximately 10 minutes
Application Temperature	5°C to 35°C
Recommend minimum dry film thickness	200 microns

All values are subject to 5-10 % tolerance

Consumption

MONNIPRIME PU	5-6m ² /Liter depending on surface texture and porosity
MONNITOP CF	2.5 m ² /Liter at 400 microns DFT
MONNITOP P 380	from 4.0m ² /Liter at 200 microns DFT
MONNITOP P 500	3.0 m ² / Liter coat (anti-slip), 4.0 m ² / Liter/coat (smooth) at 200 microns DFT
MONNITOP LM	5.0m ² /Liter for 100 micron, (dry) depending on the surface conditions and method of application
MONNITOP QG NO.2	0.6-2.0 kg depending on application

Packaging

PRIMER PU	-	15 liter pail
MONNITOP CF	-	15 liter pail
MONNITOP P380	-	15 liter pail
MONNITOP P500	-	15 liter pail
MONNITOP LM	-	15 liter pail
MONNITOP QG NO. 2	-	25 kg bag
SOLVENTE 10	-	20 liter pail

Storage

Store MONNITOP P 1160 in dry and covered shed. Exposure to extreme temperature and direct sun light results in the deterioration of the product's efficiency and reduces its shelf life.

If stored as recommended its shelf life would be 12 months from the manufacturing date.

Health & Safety

Avoid contact with skin & eyes. Protective clothing such as gloves & safety goggles should be worn during application. Treat any splashes to the skin or eyes with fresh water immediately.

Should the product be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. Ensure adequate ventilation at site and avoid inhalation of vapors.

Legal disclaimer

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