

## MONNELI EPOFLOOR P500

*Single Component Polyurethane UV Resistant Traffic Coating Low VOC*

### Product Description

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

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

### Uses

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

EPOFLOOR 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
- Factories
- Sport stadiums waterproofing coatings

### Advantages

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

### 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 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 must be treated with PRIMER POXY, a high performance epoxy solvented primer. PRIMER POXY 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<sup>2</sup>/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/m<sup>2</sup>. Allow to cure for 24 hours. Excess aggregate shall be brushed away.

## **Mixing**

EPOFLOOR 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 EPOFLOOR P500 at a minimum rate of 4.0 m<sup>2</sup>/Liter for pedestrian traffic and 3.0 m<sup>2</sup>/Liter for vehicular traffic by roller or airless spray.

EPOFLOOR P 500 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 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**

- Do not apply EPOFLOOR P500 when the humidity exceeds 85%.
- Make sure that the substrate temperature is 3°C higher than the dew point.
- The curing time of EPOFLOOR 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.
- EPOFLOOR P500 should not be applied on damp surfaces or with a risk of rising dampness.
- Do not thin with solvents.

## **Technical Data**

Properties	Results
Appearance	Liquid coating
Color	Grey ( other colors are available on request)
Mix density at 25°C	1.3 - 1.4 kg/L
Elongation	Approx 100%
Tear Strength	26 kN/m
Tensile Strength	Approx 6N/mm <sup>2</sup>
Relative Atmospheric Humidity	40-90%
Application Temperature	+5°C to +35°C
Water Vapor Diffusion Resistance Factor	Approx. 3000
Capable of bearing loads	After 48 hours
Tack-free	After Approx 30 minutes

All values are subject to 5-10 % tolerance

## **Consumption**

3.0 m<sup>2</sup> / Liter coat (anti-slip), 4.0 m<sup>2</sup> / Liter/coat (smooth) at 200 microns DFT.

## **Packaging**

EPOFLOOR P500 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 +25°C. Shelf life is 6 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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