

# MONNELI EPOFLOOR P 440

Two Component , Alipathic Polyurethane Top Coat

## Description

EPOFLOOR P 440 is a two component, low viscosity polyurethane top coat. It is used as UV resistant sealer over concrete and the range of EPOFLOOR epoxy and polyurethane coating systems. The use of special solvents and adhesion promoters gives this material excellent penetration and adhesion to minimally profiled concrete.

EPOFLOOR P 440 is U.V. stable for use in exterior applications, cures rapidly and the sealed system is ideal for all weather exposure. When used as a finish coat, this material gives a hard, glossy surface that offers excellent stain resistance and easy clean ability.

## Advantages

- Low viscosity
- Easy application
- UV and weather resistant
- Excellent adhesion to non - porous substrates
- Easy to clean and maintain
- Exhibits high mechanical properties
- Resistant to fresh water, sea and waste water
- Resistant to variety of alkalis, diluted acids, brine, mineral oils, lubricants and fuels

## Uses

EPOFLOOR P 440 is typically used as a UV resistant sealer coat for the EPOFLOOR range of epoxy and polyurethane resin systems. When used as a finish coat in vehicle areas, it resists tire tracking and provides high abrasion resistant top coat finish.

EPOFLOOR P 440 has been designed for use over concrete, acid stained surfaces, concrete pavers and various types of architectural concrete.

EPOFLOOR P 440 can be used in areas such as:

- Car park decks
- Ramps
- Loading bay areas
- Production & assembly halls
- Hospitals
- Schools
- Warehouses
- Service corridors
- Aircraft hangers

## 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.

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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 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.

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

Precondition components A and B to a temperature of approximately 15-25°C before mixing. Pour and mix entire contents of Component B into Component A container and mix with a mechanical drill and paddle at a very low speed (ca. 300 rpm) for at least 3 minutes.

Occasionally scrape the sides and the bottom of the container to ensure complete mixing and make sure to keep the mixer blades submerged in the coating in order to avoid production of air bubbles. Never work out of the ordinal container. When a homogeneous mixture is attained, pour the mixture to a fresh container and mix again for another minute.

### Application

EPOFLOOR P 440 is applied by using a roller. The application should be crosswise and finishing off with a separate, wide roller. Start along the shortest side of the floor to be coated, working a wet edge to the opposite end. Care should be taken to avoid dry edges and late rolling that will produce roller marks in the finished floor.

If necessary, apply a second coat to improve the appearance and increase the mechanical and chemical properties.

### 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

- Application should take place within the re-coat interval.
- The curing time of EPOFLOOR P 440 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.
- Low temperatures slows down chemical reaction, lengthens the pot life, re-coating interval and pot life. Viscosity increases which leads to a higher consumption.
- EPOFLOOR P 440 should not be applied on surfaces with a risk of rising dampness.
- The temperature of the substrate must be at least 3°C above the dew point.

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## Technical Properties

Properties	Result
Appearance	Liquid coating
Color	Grey, light grey, red, green, blue (further colors are available on request)
Density at 25°C	1.25 kg/L
Solid Content	85%
Viscosity at 25°C, 50 s <sup>-1</sup>	1200 mpAs
Abrasion Resistance	<45 mg
Adhesion Strength	Concrete fails before loss of bond
Ready for Traffic	14 hours
Full Cure Time	7 days
Recoating interval	16-48 hours
Working Time	>50 min

All values are subject to 5-10 % tolerance

## Consumption

0.10-0.12 kg/ m<sup>2</sup> / coat

## Packaging

EPOFLOOR P 440 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 +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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