

MONNELI EPOFLOOR UV3

High performance, Chemical Scratch & UV Resistant Polyester Polyurethane Floor & Wall Coating

Product Description

EPOFLOOR UV3 is a two component, solvent based polyurethane top coat. It is used as UV resistant sealer over concrete and the range of Epofloor epoxy and polyurethane flooring & coating systems. The use of special additives and adhesion promoters gives this material excellent penetration and adhesion to minimally profiled concrete.

EPOFLOOR UV3 is UV stable for use in exterior applications, cures rapidly and the sealed system is ideal for all weather exposure. When used as a finish coat, EPOFLOOR UV3 gives a hard, gloss surface that offers excellent scratch resistance and easy clean ability. EPOFLOOR UV3 is supplied in a pack size of 4 & 15 liter kit consist of Resin & Hardener

Uses

EPOFLOOR UV3 has been designed for use over concrete, acid stained surfaces, concrete pavers and various types of architectural concrete. It is typically used as a follows:

- 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
- Finishing coat in industrial, commercial, or marine applications where a heavy-duty polyurethane floor finish is required
- The excellent resistance to acids diluted alkalis, spillage of solvents, chemicals, jet fuel, grease, etc. and the high abrasion resistant combined with its elasticity makes EPOFLOOR UV3 suitable for sewage walls and effluent plants, chemical processing and car parks, vehicle ramps and traffic aisles both indoor and outdoor.

Design Criteria

EPOFLOOR UV3 is designed to be a hard wearing thin coat application on cementitious or metal substrates as well as a top coat over epoxy and aromatic urethane coatings at thicknesses between 50 and 100 microns. The product is used for internal and external application.

Advantages

- Excellent surface adhesion
- UV and weather resistant and not degradable, chalk under light UV exposure or yellow under Ultra Violet light exposure.
- Superior scratch and chemical resistance
- Superior abrasion resistant
- High bond, stronger than concrete cohesive strength
- Good stain resistance
- Hygienic and impervious
- Tough and flexible coating
- Easy to clean and maintain
- Cost efficient
- Superior surface finish
- Can be applied to concrete and steel
- Available in 8 standard colors with possibility of custom RAL color

Instructions for Use

Surface Preparation

The surface of the concrete 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. Allow the repair material to harden.

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

All surfaces must be treated with PRIMER PU, a high performance solvent based, epoxy primer.

The primer should be applied by brush or roller on to the cleaned surface area (particularly hidden surfaces) at a rate of 6-8m²/Liter.

The primer should be left to achieve a tack-free condition for 8-12 hours before applying the floor coating. A second coat of primer may be required if the substrate is excessively porous.

Mixing

EPOFLOOR UV3 is composed of two components that must be mixed at the moment of use. In a separate mixing vessel, use a slow speed mixer to mix the base and hardener for three minutes. Do not add solvent thinners at any time.

Application

Apply EPOFLOOR UV3 by roller, squeegee or airless spray to the surface. The application should be at a rate of 10m²/liter

Application should not be carried out when humidity exceeds 90%, or when the surface temperature to be coated is less than +3°C above the dew point.

EPOFLOOR UV3 can be applied as a single intermediate coat, or as a multi coat sandwich system incorporating Quartz to give a slip resistant finish.

Expansion Joints

Expansion joints in the existing substrate must be retained and continued through the EPOFLOOR UV3. Colmef have a range of joints sealants specifically designed for flooring.

Cleaning

Tools and equipment should be cleaned with SOLVENTE 10 immediately after use. Harden 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
- Low temperatures slows down chemical reaction, lengthens the pot life, re-coating interval and pot life. Viscosity increases which leads to a higher consumption.
- High temperatures accelerates chemical reactions, shortens the pot life, re-coating interval and pot life.
- Temperatures should not fall below the minimum stated until the material is fully cured
- The substrate to be coated against rising damp (back pressure)

Technical Data

Properties	Results
Appearance	Liquid coating
Color	Refer Colmef Color Chart
Recommended DFT/coat	50-100µm
Solid Content	50%
Pot Life at 12°C	90 minutes
Pot Life at 25°C	60 minutes
Pot Life at 40°C	25 minutes
Thin Film Dry Time at 12°C	12 hours
Application Maximum Relative Humidity	75%
Bond Strength to Concrete (ASTM D4541)	> 1.5 N/mm ²
Taber Abrasion ASTM D4060 CS17 Wheels (mg loss/1000cycles)	20
Water Absorption (ASTM D413 (maximum))	0.001
Porosity with no sealer NACE Sand TM-01-74	0
Skid Resistance (British Pendulum number - BPN) ASTM E303: Dry: Wet	91 21
Service Temperature	-5°C to +80°C

All values are subject to 5-10 % tolerance

Packaging

EPOFLOOR UV3 is supplied in 4 and 15 Liter Kits

Consumption

10 m²/Liter per coat depending on the surface conditions

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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