MONNELI EPOFLOOR UV2

UV Resistant Aliphatic Polyurethane Coating

Product Description

A two component, low viscosity urethane 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 UV2 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, this material gives a hard, glossy surface that offers excellent stain resistance and easy clean ability.

Uses

EPOFLOOR UV2 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 UV2 suitable for use in car parks, vehicle ramps and traffic aisles both indoor and outdoor.
- As a UV resistant protective coating for roof waterproofing system.

Advantages

- Low viscosity
- Excellent surface adhesion
- UV and weather resistant
- Impact and abrasion resistant
- Good chemical and stain resistance
- Tough and flexible coating
- Easy to clean and maintain

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 scrabbling, 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

If no epoxy or polyurethane coat is applied, all surfaces must be treated with PRIMER POXY FF, a high performance solvent-free primer.

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/Liter.

The primer should be left to achieve a tack-free condition for 6-8 hours before applying the floor coating. A second coat of primer may be required if the substrate is excessively porous.

Mixing

EPOFLOOR UV2 is composed of two components that must be mixed at the moment of use. The base (Component A) should be mixed for two minutes with a drill at low number of turns (200-300 RPM) till obtaining a homogenous mix. Pour the hardener (Component B) into the base mixture and mix for another two minutes.

Application

Apply EPOFLOOR UV2 by roller, squeegee or airless spray to the surface. 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 UV2 can be applied as a single intermediate coat, or as a multi coat sandwich system incorporating aggregates to give a slip resistant finish.

Cleaning

Tools and equipment should be cleaned with SOLVENTE 10 immediately after use. Harden should be remove 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.
- Materials, substrates and air temperature should be in the range of +15°C to + 25°C.
- 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
Density at 25°C	1.2 kg/L
Solid content	60%
Pot life at 25°C	1 hour
Tensile strength (ASTM D412)	4 N/mm²
Tear strength (ASTM D624)	22 N/mm
Elongation at break (ASTM D412)	37%
Adhesion to concrete	Concrete fails before loss of bond
Full cure time at 25°C	7 days
Viscosity at 25°C	600 cps
Recoating interval at 25°C	12-24 hours
Light traffic at 25°C	24-48 hours
Vehicle traffic at 25°C	7 days
Dry coat thickness	75 - 100 µ depending on substrate conditions
Permissible ambient and substrate temperature	+8°C - +30°C
Maximum permissible RH	75%
Service temperature	-5°C to + 80°C

All values are subject to 5-10 % tolerance

Consumption

6 - 8 m²/Liter per coat depending on the surface conditions

Packaging

EPOFLOOR UV2 is supplied 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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