

# MonniTop UV2

## UV Resistant Aliphatic Polyurethane Coating

### Product Description

MonniTop UV2 is a two component, low viscosity urethane top coat. It is used as UV resistant sealer over wall and floor concrete surface and the range of MonniTop epoxy and polyurethane coating systems. The use of special solvents and adhesion promoters give this material excellent penetration and adhesion to minimally profiled concrete.

MonniTop 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

MonniTop UV2 has been designed for use over concrete walls and floors, acid stained surfaces, concrete pavers and various types of architectural concrete. It is typically used as a follow:

- ▶ UV resistant top coat for the epoxy and polyurethane resin systems.
- ▶ When used as a finish coat in vehicular traffic 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 MonniTop UV2 suitable for use in car parks, vehicle ramps and traffic aisles both indoor and outdoor

### Advantages

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

### Usage Instructions

#### 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 MonniFinish EC, a solvent free epoxy resin repair mortar. Allow the repair material to harden.

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.

### Priming

If no epoxy or polyurethane coat is applied, all surfaces must be treated with MonniPrime EF, 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 m<sup>2</sup>/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

MonniTop 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 MonniTop 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.

### Cleaning

Tools and equipment should be cleaned with Monneli Solvent 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
- ▶ Avoid working in raised temperatures or mid day in summer season.
- ▶ 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

Category	Typical Values
Appearance	Liquid Coating
Color	See Standard 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/mm <sup>2</sup>
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 mpAs
Recoating interval at 25° C	12-24 hours
Light traffic at 25°C	24-48 hours
Vehicle traffic at 25°C	7 days
Permissible ambient and substrate temperature	+4°C - +30°C
Dry Coat Thickness	75 - 100 μ depending on substrate conditions
Maximum Permissible RH	75%
Service Temperature	-5°C to +80°C

All values are subject to 5-10 % tolerance

## Consumption

6 - 8 m<sup>2</sup>/Liter per coat depending on the surface conditions

## Packaging

MonniTop UV2 is supplied in 4 and 15 Liter Kits

## Life & 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.

## Legal disclaimer

Monneli endeavors to ensure that any advice, recommendations, information it may give, is accurate and correct. It cannot accept any liability either directly or indirectly arising from the use of its products, because it has no direct or continuous control over where or how its products are applied, whether or not in accordance with any advice, specification, recommendation or information given by us. Monneli has the right to change any of the specifications mentioned in the Technical data sheets upon its discretion without prior notification. Hard copies of TDSs are printed once or twice a year, while our technical data sheets are continuously being updated as per R&D improvements and new 3rd party testing; kindly refer to our website for the latest updated TDSs.

VER.1.2019