

Monni Uralevello

Medium to Heavy Duty Polyurethane Hybrid Self Smoothing System

Description

URALEVELLO is a single layer, seamless, solvent free, polyurethane flooring system with a smooth matt surface finish. It has high impact resistance and withstands abrasive wear and a wide spectrum of chemicals.

The product is a 3 component system consisting of a base, hardener and powder filler.

Uses

- Where maximum flooring chemical resistance is required in food and beverage productions, pharmaceutical production and chemical plants.
- Where smooth, even and easy to clean surface is required such as in textile and film plants, warehousing and storage, confectionery production, electronic component manufacture & assembly.

Advantages

- Low maintenance cost.
- Hygienic, impervious and easily cleanable.
- Available in 6 standard colors .
- High bond, stronger than concrete cohesive strength.

Design Criteria

URALEVELLO is designed to be a hard wearing self smoothing single pour application on cementitious or metal substrates at thicknesses between 3 to 6 mm. The applied product will be resistant to water as well as a wide range of chemicals.

Instructions for Use

Surface Preparation

The surface should be sound, clean, free from loose material, grease, laitence, dirt curing compound, etc. Laitence and weak surface layer shall be removed using mechanical methods such as grinding or blasting in order to provide a sound well profiled surface.

All necessary repairs should be made prior to application by using Monni URAMASSETTO M1. New concrete floors shall be at least at least 5 days old and visibly dry without standing water on top.

Mixing

URALEVELLO is supplied in three pre-weighed packs (base, hardener and aggregate) which are ready for immediate on-site use. Part mixing of these components is not acceptable and will affect both performance and appearance of the finished floor.

Mixing should be carried out using either a forced action mixer; or a heavy duty mobile mixer fitted with a jiffy type mixing paddle. All such equipment should be of a type and capacity approved by Monneli.

The components should be mixed in a suitably sized mixing vessel. Stir the base and hardener components individually then empty them into the mixing vessel scrapping the edges and mix for 2 minutes.

The contents of the graded aggregate pack should be slowly added and mixing carried out for a further 3 minutes until a completely homogeneous material is obtained.

Priming

All surfaces receiving URALEVELLO should be primed with Uraprime W which is designed for maximum absorption and adhesion to concrete substrates. Add the entire contents of the hardener tin to the base tin and mix the two primer components thoroughly for at least 2 minutes - only mix full packs. Once mixed, the primer should be applied immediately to the prepared substrate using stiff brushes and/or rollers.

The primer should be well 'scrubbed' into the substrate to ensure full coverage, but care should be taken to avoid over application or 'ponding'. Allow the primer to dry before proceeding to the next stage, do not proceed whilst the primer is 'tacky' as this will lead to unsightly marks in the finished surface.

Porous substrates may require a second primer coat - when the first coat is directly absorbed into the substrate - but minimum over-coating times must still be observed.

Application

Ensure that there are sufficient labor and materials to make the mixing and subsequent application process a continuous one for any given, independent floor area.

Once mixed, the material must be used within its specified pot life. The material should be poured onto the prepared and primed substrate as soon as mixing is complete. It should be spread to the required thickness using a notched trowel or a gauged spreader; with care taken not to overwork the resin, spreading evenly and slowly.

Immediately after laying, the material should be rolled, using a spiked nylon roller, to remove slight trowel marks, and to assist air release. The rolling should be carried out using a 'back and forth' technique along the same path. An overlap of 50% with adjacent paths is recommended.

Further light rolling may be required to remove surface imperfections, or for subsequent release of trapped air, but should be prior to the setting of the product.

Floor Joints

URALEVELLO can be used to form perimeter edge coving up to a height of 225 mm. Skilled applicators can also use it to repair stair treads and fix expansion joint edges.

Cleaning

URAPRIME W and URALEVELLO should be removed from tools and equipment water immediately after use. Hardened material can only be removed mechanically.

Technical Data

Category	Typical Values
Density (BS6319:Part)	1.97 kg/L
Compressive Strength (BS6319:Part2)	48 - 53 N/mm ²
Flexural Strength (ISO178)	21 N/mm ²
Dynamic E Modules (ASTMC597-83)	14000 N/mm ²
Tensile Strength (ISO R527)	9 N/mm ²
Concrete Adhesion (BS6319:Part2)	Concrete fails
Abrasion Resistance (Taber H22) (Taber CS17)	1410 mg 120 mg
Coeff. Thermal Expansion (ASTM C531)	$3.6 \times 10^{-5} \text{ } ^\circ\text{C}^{-1}$
Thermal Conductivity (BS874)	0.9 W/m °C
Surface Resistivity (BS2050)	2×10^{11} ohms
Water Absorption (CP.BM 2/67/2)	0 mL
Surface Spread of Flame (BS476: Part 7)	Class 2
Service Temperatures 9mm 6mm	-15 °C to 80°C -15 °C to 60°C

All values are subject to 5-10 % tolerance

Packaging

URALEVELLO 28 Kg kit

Consumption

2 – 2.25 kg/m² @1mm DFT

nature of substrate, method of application and wastage.

Storage

Original sealed bag of Uralevello has a shelf life of 12 months provided it is stored clear of ground in a dry and shaded place below 35°C.

Health & Safety

URALEVELLO is irritant and harmful therefore avoid direct contact with eyes or skin. It is recommended to use protective gloves and goggles during application. In case of contact with eyes, clean immediately with plenty of clean cold water and seek medical advise.

Ensure adequate ventilation when using product or when using solvent for cleaning purposes and avoid inhalation of vapours.

The use of barrier creams provide additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water.

Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medial advice.

If swallowed, seek medical attention immediately – Do not induce vomiting.

Keep away from sources of ignition. No Smoking. In the event of fire extinguish with CO₂ or foam.

Legal disclaimer

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