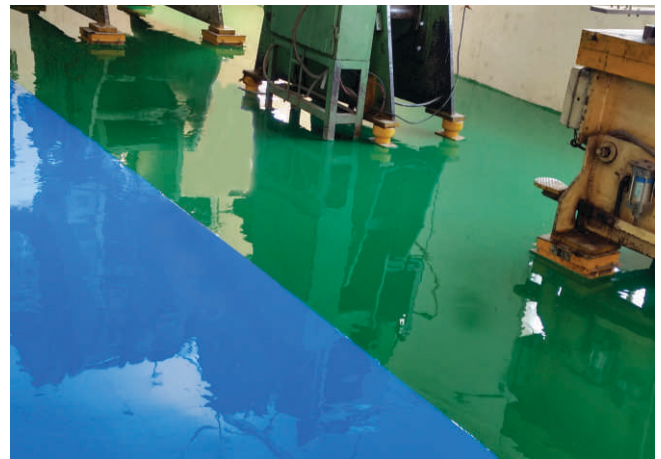




Ultralevel EPU SL 1000/2000

SELF LEVELLING SEAMLESS EPU FLOOR SYSTEM



DESCRIPTION

Ultralevel EPU SL 1000/2000 consists of graded aggregates bound in a pigmented epoxy & polyurethane resin binder. It is supplied as a four component system, pre-weighed for on-site mixing. When laid, it provides a smooth, light reflective surface. It is available in a range of standard colours.

RECOMMENDED USES

It is designed for use in wide range of industrial environments where a lasting solution to floor maintenance problems is required. It provides a dense, impervious, coloured & chemically resistant floor surface which is hygienic & easy to clean. Applications include Clean rooms, Laboratories, Hospitals, Plant rooms, Light industrial plants

FEATURES & BENEFITS

Fast application, Chemical resistance, Durable, Hygienic, Attractive - available in a wide range of colours to enhance the working environment

CHEMICAL RESISTANCE

Ultralevel EPU SL 1000 has excellent resistance at ambient temperatures to a wide range of industrial chemicals.

Note : It is important that spillage is cleaned up quickly as much higher concentrations of chemicals may occur on evaporation.

PERFORMANCE PROPERTIES

Colour	Desired colour
Pot life at 27 +/- 2°C	30 minutes
Minimum hardening temperature °C	10
Curing time, in days, minimum	7
Cure time - foot traffic, hours	24
Cure time - vehicular traffic, hours	72
Compressive strength ASTM C -109	55N/sq.mm
Tensile strength ASTM C -307	18 N/sq.mm
Flexural strength ASTM C -78	40 N/sq.mm

APPLICATION PROCEDURE

Concrete surfaces should be free from laitance & dust by sandblasting, thorough abrading with a hard wire brush, by etching with etching agents & wire brushing. Remove the concrete by chipping. Contaminated substrate with oil or grease should be removed by using a strong industrial detergent or organic degreaser. Then wash the surface thoroughly with water & dried before the application. The pre-requisites for good adhesion of the coating are cleanliness, roughness & dryness of the surface. For a guaranteed successful performance, ensure proper surface preparation. The degree of dampness of the surface must be less than 4%.

Priming

All surfaces to be treated with Ultralevel EPU SL 1000 / 2000 should be primed with Primer E1, an epoxy resin primer designed for maximum absorption & adhesion to concrete substrates. Add the entire contents of the hardener to the base & mix the components thoroughly for at least 2 minutes. No part mixing is permitted. Once mixed, the primer should be applied immediately to the prepared substrate using stiff brushes 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 on the finished surface. Porous substrates may require a second primer coat and minimum over coating times must be observed. This will vary according to the porosity of the substrate and ambient application temperatures.

Mixing

Ultralevel EPU SL 1000/ 2000 flooring is supplied in four pre-weighed packs (base, hardener, colour paste and aggregate) which are ready for immediate on-site mixing. Mixing should be carried out using a forced action mixer or a heavy duty, slow-speed drill fitted with mixing paddle. The components should be mixed in a suitably sized mixing vessel. Add colour pack to the base container & mix for 30 -35 sec until homogeneous. Add the hardener pack to the base container & mix for 30 - 45 seconds, until homogeneous. Then, add the contents of the graded aggregate pack slowly & mix for a further 3 minutes until a completely homogenous material is obtained. The applicator should ensure that there are sufficient supplies of plant, labour & materials to make the mixing & application process a continuous one for a given, independent floor area. The material should be poured onto the prepared & primed substrate as soon as mixing is complete, within its specified pot life. It should be spread to the required thickness using a serrated trowel; with care taken not to overwork the resin, spreading evenly & slowly. Immediately after laying, the material should be rolled using a 'back and forth' technique along the same path with a spiked nylon roller, to remove slight trowel marks & to assist air release. An overlap of 50% with

adjacent path is recommended prior to the setting of the product, light rolling may be required to remove surface imperfections or release of trapped air.

FLOOR JOINTS

All existing expansion or movement joints should be followed through the new floor surface. Joint sealant & joint geometry should be compatible with the floor type used, intended exposure conditions and likely movement characteristics of the substrate.

CLEANING

Immediately after application of EPU SL1000, clean the tools, equipment and the mixing container using solvents like Bostik Thinner E otherwise, removal of dried / hardened epoxy material is difficult.

MAINTENANCE

The service life of a floor can be considerably extended by good housekeeping, regular cleaning using a rotary scrubbing machine with a water miscible cleaning agent at temperatures up to 50°C.

Note: If the temperature falls below 10°C, both base & hardener components should be warmed to 25°C in hot water bath before mixing. When working in closed areas, good ventilation must be provided. After the application, it should be protected from rain & dew for a period of 6 hours. On application, the relative humidity should not exceed 75%.

PACKAGING

Ultralevel EPU SL 1000 - 16 kg
Ultralevel EPU SL 2000 - 17 kg

COVERAGE

EPU SL 1000 - 10 sq.m per pack @ 1 mm thickness
EPU SL 2000 - 5 sq.m per pack @ 2 mm thickness

STORAGE & SHELF LIFE

12 Months in the original packing.

HEALTH & SAFETY

Wear suitable protective clothing, gloves and goggles while handling.

BOSTIK HOTLINE

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