DRI-FLOOR PU 3000

Heavy Duty Polyurethane Cement Floor Topping

DRI-FLOOR PU 3000 is a three part, water based, high strength, thermal shock resistant, heavy duty, coloured polyurethane topping suitable for floors subject to temperature shock up to 120^{O}C, abrasion, chemical exposure and other physical aggression

FEATURES/BENEFITS

- ✓ Excellent resistance to organic & inorganic acids, alkalis, fuel and hydraulic oils and solvents
- ✓ Resistance to bacteria growth, fungi, mold, and mildew
- ✓ High abrasion & impact resistant
- ✓ Solvent free & odorless
- ✓ Easy maintenance, removal of oils/stains/blood or other contaminants easily.

APPLICATION AREAS

- ✓ Chemical processing plant
- ✓ Food processing plant
- ✓ Brewing and dairy
- ✓ Engineering process areas
- ✓ Heavy duty traffic and plant areas
- ✓ Warehouse / Logistics area
- ✓ Pharmaceutical Industries
- ✓ Palm oil processing and packaging plants
- ✓ R&D Laboratory
- ✓ Marking of escape route/walkways

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Product Data

Appearances / Colors	Standard colors: Red, Green, Cream, Yellow, Grey, Light Grey. Special colors can be produced upon request
Packaging	20kg sets (Part A + Part B + Part C)
Storage	12 Months from date of production
Storage Condition	Dry conditions at Temperature between, 5-35 Degree Celsius
Finishing	Matt & seamless smooth finish

Technical Data

Origin	Water based polyurethane with specifically designed fillers
Density	2.0kg/l at +23°C
Thickness	6-12mm
Service Temperature	-40°C to +120°C
Compressive Strength	>60N/mm^2
Flexural Strength	>14N/mm^2
Bond Strength	>1.5N/mm^2
Chemical Resistance	Please refer to chemical resistance table

Application conditions

Substrate temperature	5-35 °C
Ambient Temperature	8-35 °C
Substrate Moisture Content	<4% moisture content with no rising moisture. No standing water/condensation on the substrate
Relative Air Humidity	Max. 80%
Dew point	Surface temperature must be +3 Degree Celsius above dew point
Over-coating time	Min. 12 hours over primer, with Max of 72 hours. Primer must be cured before application
Traffic condition (Substrate at 25°C)	Foot Traffic: 18hours Light Traffic: 30 Hours Full Cure : 6 days

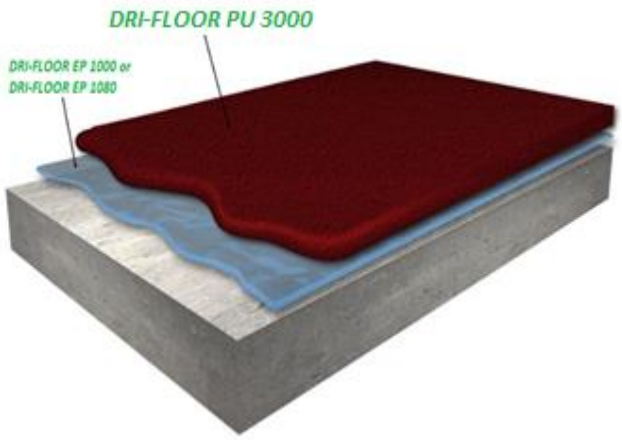
- Curing time may vary and are subjected to ambient conditions

System Build Up / Information

DRI-FLOOR PU 3000 System high performance self-leveling PU screeds / coating.

Coating	Product	Consumption
Primer	Substrate moisture <4% - ***DRI-FLOOR EP 1000/1080***	0.2-0.3 kg/m^2
PU-Screed	***DRI-FLOOR PU 3000***	6mm : 12.0 kg/m^2 9mm : 18.0 kg/m^2

- May only use as a general guideline. Actual consumption may vary subjected to substrate quality.



SUBSTRATE

New concrete should be cured for at least 28 days and should have a Pull off strength ≥ 1.5 N/mm^2. Cement or mineral based substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and to achieve an open textured surface. Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed. Repairs to substrate, filling of blow holes / voids and surface levelling must be carried out using appropriate products such as ***DRI-PATCH EP 90***, High strength epoxy mortar, or ***DRI-PATCH UA 80***, under water application epoxy patching mortar. High spots can be removed by grinding. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.Substrate must have sufficient gradient for surface water to run off easily without ponding water.

MIXING

Prior to mixing, stir Part A (resin) well, then add all of Part B (hardener) and mix both liquid parts thoroughly with a low speed electric stirrer for a minimum of one minute until a uniform mix has been achieved. Gradually add Part C (aggregate) to the mixed resin parts in the mixer for a further 3 minutes minimum, until a uniform moist mix is obtained. Use a low speed drill (500 rpm) and a helical mixer to mix ***DRI-FLOOR PU 3000*** Parts A and B and C.

APPLICATION

Prior to application, please ensure substrate moisture content, relative humidity, and dew point is within limits. If moisture content is > 4% pbw, a moisture barrier system is required before the application of ***DRI-FLOOR PU 3000***. Pour the mixed ***DRI-FLOOR PU 3000*** onto the substrate and spread evenly with a trowel or rake to the required levels, achieving a flat surface. Light spike rolling should be carried out within 3 minutes of application in order to avoid interfering with the film gel time.

Freshly applied ***DRI-FLOOR PU 3000*** should be protected from damp, condensation and water for at least 24 hours.

To ensure the finished system remains fully bonded to the substrate, it is recommended that retaining slots of 5 mm deep by 5 mm wide are formed, running at 150 mm from and parallel to the walls and all edges. Retaining slots are also recommended at day joints. Always ensure good ventilation when using ***DRI-FLOOR PU 3000*** in a confined space.

LIMITATIONS

- Do not apply on substrates with rising moisture. Always apply during falling ambient and substrate temperature. If applied during rising temperatures pin holes may occur from rising air.
- Ensure that temperature does not drop below 8°C and that relative humidity does not exceed 80% until the Membrane has fully cured.
- Ensure that the coating is thoroughly dry and the surface is without pinholes before applying any top coat.
- The colour of ***DRI-FLOOR PU 3000*** may vary or yellow under UV. ***DRI-FLOOR UV 9000*** can be applied to further enhance its UV-Resistance.

HEALTH & SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use of these products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance to the manufacturer recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.