

Expanfloor* PU150

Chemical, UV and abrasion resistant, hybrid polyurethane wall & Floor coating system

Uses

Expanfloor* PU150 is high performance, chemical and abrasion resistant, pigmented hybrid polyurethane coating. It provides a dust-proof easily cleaned surface, which is resistant to most acids, alkalis, hydrocarbon, hydraulic fluids, oils and jet fuel resistant, It is suitable for use on:

- Dairies, meat and food processing plants.
- Light industrial and manufacturing plants
- Beverages and liquid manufacturing plants
- Kitchens and other areas of pedestrian light, medium, & heavy vehicular traffic.

Advantages

- Durable - Good resistance to chemical abrasion, UV, and impact resistant
- Economical - easy to apply.
- Minimizes cleaning costs.
- Seamless and hygienic finish
- Safe for use, low odor
- Available in attractive range of colors
- Good resistance to a wide range of industrial chemicals.

Description

Expanfloor* PU150 is polyurethane solvent free coating, it can be used as self finish coating with Expanprime PU9, and can also be used as top coat on epoxy base flooring system, in any case apply two coat of Expanfloor* PU150

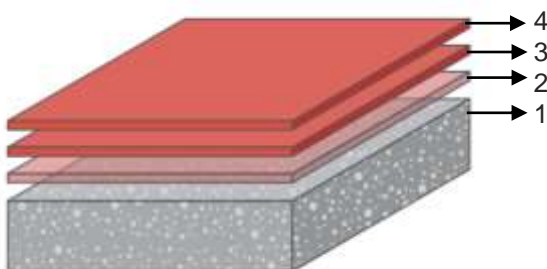
Epoxy base system details are following

Epoxy Coating System:

- 1) Concrete substrate
- 2) Expanprime 25 or WB : 40 – 50 microns
- 3) Expanfloor* FC150 : 250 – 275 microns
- 4) Expanfloor* PU150 : 90 – 100 microns

Epoxy Screed System:

- 1) Concrete substrate
- 2) Expanprime 25 or WB : 40 - 50 microns
- 3) Expanfloor TF5000/TF10000: 5 mm / 10 mm
- 4) Expanfloor* PU150 : 90 – 100 microns



Note:- Expanfloor* PU150 can also be used as top coat on any Expanfloor coating, screed or topping system.

Coating system supplied in pre-weighed packs ready for on-site mixing and use. The cured film forms a hard, semi-matt seal to concrete and other substrates. The product is available in a wide range of standard colors, Expanfloor* PU150 can also be used as an independent product on finished substrate with primer coat of Expanprime PU9.

Specification

Coating System

The coating system shall be Expanfloor* PU150, suitable for application by brush or roller. The coating shall be applied as per given thickness or as directed by manufacturer.

Technical support

Fospak Expanchem offers a comprehensive range of high performance, high quality flooring, jointing and repair products for both new and existing floor surfaces. In addition, the company offers a technical support service to Specifier, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Design criteria

Expanfloor* PU150 coating is designed for application in two coats, approximate dry film thickness will be 100 - 200 microns per coat (If used as an independent coating) or 90 – 100 microns as top coat for epoxy coating system. Substrates should be dry and not suffer, or be likely to suffer, from rising damp. If necessary, suitable damp-proof membranes should be installed to prevent this.

Properties

The value given below are average figures achieved in laboratory tests. Actual values obtained on site may show minor variations from those quoted.

Physical properties:	@ 20°C	@ 35°C
Pot life:	2 Hr.	1 Hr.
Time between coats:	16 - 36 Hr.	12 - 24 Hr.
Initial hardness:	24 Hr.	18 Hr.
Full cure:	7 days	7days
Light traffic allow:	36 Hr.	24 Hr.
Full traffic allow:	4 - 6 days	2 – 4 days
Service temperature:	up to 70 °C	
Tensile strength:	> 15 N/mm ² (BS6319)	
Bond Strength:	1.85 MPa (Concrete failure)	
Abrasion resistant:	4 mg loss / 1000 cycles 1 kg load using CS10 wheel	

Chemical properties

Expanfloor* PU150 is resistant to a wide range of chemicals. Specific data is available on request.

Good housekeeping is essential in areas where chemical spillage is likely to occur. It is especially important that such spillage should not be allowed to dry.

Instructions for use

Surface preparation

It is essential that Expanfloor* PU150 is applied to sound, clean substrates in order to achieve maximum adhesion between coating and substrate. The substrate must be fairly smooth, as any surface irregularities may show through Expanfloor* PU150 changing the perceived color of the coating and causing excessive wear on high spots.

New concrete floors

The floor should be typically at least 28 days old and give a hygrometer reading not exceeding 80% RH when tested in accordance with BS 8203 Appendix A. For application at earlier stages contact your local Fospak office for further advice, removal of laitance by light grinding (manually or mechanically) is preferable. Dust and other debris should then be removed by vacuum brush, damp mope etc., if wash or apply wet mope than allow to dry prior to the application of primer or coating.

Old concrete floors

A sound, clean substrate is essential to achieve maximum adhesion. Light grinding or wire brushing should be carried out, Oil and grease penetration should be removed by acid etching and allow to dry prior to the application.

Priming

All surfaces treated with Expanfloor* PU150 individually should be primed with Expanprime PU9 designed for maximum absorption and adhesion to concrete substrates, Expanprime PU9 is two component polyurethane base primer, mix both components properly and apply by brush or roller.

Mixing

The individual components of Expanfloor* PU150 should be thoroughly stirred before the two are mixed together. The entire contents of the hardener container should be poured into the base container and the two materials mixed thoroughly for at least 3 minutes. The use of a heavy duty slow speed drill fitted with a mixing paddle is desirable, small pack can be mix manually.

Coating

The mixed Expanfloor* PU150 should be applied to the prepared surface using a brush or lamb wool roller. Ensure that the area is completely coated and that ponding of the material does not occur.

The second coat may be applied as soon as the first coat has initially dried (typically 12 – 24 hours), dry time depend on type of surface and on ambient temperature.

Epoxy screeds

Expanfloor* PU150 may be applied to Fospak epoxy resin screeds. High spots or trowel marks should be rubbed down, dust and other debris removed by vacuum cleaning.

Cleaning

Expanfloor* PU150 should be removed from tools and equipment with Solvent 102. Sami dry material can also be remove with Solvent 102.

Maintenance

The service life of a floor can be considerably extended by good housekeeping practices. Regular cleaning of Expanfloor* PU150 may be carried out using a rotary scrubbing machine with a water miscible cleaning agent or by warm water washing at temperatures up to 40°C.

Limitations

Expanfloor* PU150 should not be applied on to surfaces known to, or likely to suffer from, rising damp or have a relative humidity greater than 75% as measured in accordance with BS 8203 Appendix A, or by a Hammond concrete/mortar moisture tester type COCO.

Expanfloor* PU150 should not be applied at temperatures below 10°C or where ambient relative humidity exceeds 85%.

Estimating

Supply

Expanfloor* PU150	: 2.50 or 5.00 Kg. Pack.
Expanprime PU9	: 1.00, 2.50 & 5.00 Kg. Pack
Solvent 102	: 5.00 Ltr. Can

Coverage

Expanfloor* PU150	: 7.40 m ² / Kg. @ 100 microns
	3.70 m ² / Kg. @ 200 microns
Expanprime* PU9	: 4 - 8 m ² / Kg.

The coverage figures given are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures may increase or decrease.

Storage

Shelf life

All products have a shelf life of 12 months, if kept in a dry store in the original, unopened packs.

Storage conditions

Store in dry conditions between 10°C and 35°C, away from sources of heat and naked flames in the original, unopened packs. If stored at high temperatures the shelf life may be reduced.

Precautions

Health and safety

Expanfloor* PU150, and Solvent 102 should not come in contact with the skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapors. Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye protection. If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provides additional skin protection. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention immediately, if swallowed seek medical attention immediately - **do not induce vomiting**.

Fire

Expanfloor* PU150 is flammable.
Solvent 102 is flammable. Keep away from sources of ignition. No smoking in working area, In the event of fire, extinguish with CO₂ or foam. Do not use a water jet.
Flash point Solvent 102 : >60°C

Disposal

Spillages of component products should be absorbed on to earth, sand or other inert material and transferred to a suitable vessel. Disposal of such spillages or empty packaging should be in accordance with local waste disposal regulation.

For further information, refer to the Product Material Safety Data Sheet.

* Denotes the trademark registered

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