

Expanfloor* FC130

Water based, epoxy resin floor and wall coating

Uses

To provide a dust-proof easily cleaned surface, which is resistant to most oils and liquids. It is suitable for use on:

- Walls and floors in warehouses.
- Garages.
- Light industrial and food processing areas
- Kitchens and other areas of pedestrian and light vehicular traffic.

Advantages

- Durable - good resistance to abrasion
- Economical - easy to apply.
- Minimizes cleaning costs.
- Water based - safe for use, low odor
- Available in attractive range of colors
- Good resistance to a wide range of chemicals.

Standards compliance

Expanfloor* FC130 complies with BS476 Part7:1987-Class 1 spread of flame.

Description

Expanfloor* FC130 is a two-component water dispersed epoxy resin 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.

Specification

Epoxy floor coating

The floor coating shall be Expanfloor* FC130, two-component water dispersed epoxy suitable for application by brush or roller. The coating shall be applied in two coats to achieve a total dry film thickness of approximately 100 microns.

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* FC130 is designed for application in two coats to achieve an approximate total dry film thickness of 100 microns. 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. Substrates should not have a relative humidity greater than 80% at the time of installation.

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:	6-24 Hr.	4-16 Hr.
Initial hardness:	24 Hr.	16 Hr.
Full cure:	7 days	7days
Dry film thickness:	100 microns approx.	
	2 Coats	

Chemical properties

Expanfloor* FC130 is resistant to a wide range of chemicals. Specific data is available on request.

Good housekeeping is essential for the durability of floor coating.

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 since very much higher concentrations of chemicals will then result.

Instructions for use

Surface preparation

It is essential that Expanfloor* FC130 is applied to sound, clean substrates in order to achieve maximum adhesion between the floor coating and substrate. The substrate must be fairly smooth, as any surface irregularities may show through Expanfloor* FC130 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. Dry removal of laitance by light grit blasting is preferable. Dust and other debris should then be removed by vacuum brush.

Old concrete floors

A sound, clean substrate is essential to achieve maximum adhesion. Light grit blasting or wire brushing should be carried out as for new concrete floors. Oil and grease penetration should be removed by hot compressed air.

Epoxy screeds

Expanfloor* FC130 may be applied to Fospak epoxy resin screeds. High spots or trowel marks should be rubbed down and dust and other debris removed by vacuum cleaning.

Asphalt floors

Under certain circumstances Expanfloor* FC130 can be applied to asphalt floors provided they are at least 12 months old, contact your local Fospak office for further advice.

Mixing

The individual components of Expanfloor* FC130 should be thoroughly stirred before the two are mixed together. The entire contents of the base container should be poured into the hardener 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.

Coating

The mixed Expanfloor* FC130 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 since water may be trapped within the product, thus preventing complete cure.

The second coat may be applied as soon as the first coat has initially dried (typically 12-18 hours). The time will be dependent on the type of surface and the ambient conditions. If the over coating window is missed the first coat must be abraded with a medium sand paper before application of the second coat.

Good drying conditions are required to allow complete evaporation of the water as the resin cures. Adequate ventilation and air movement is necessary.

Cleaning

Expanfloor* FC130 should be removed from tools and equipment with clean water immediately after use. Semi dry material can be removed with Solvent 102.

Maintenance

The service life of a floor can be considerably extended by good housekeeping practices. Regular cleaning of Expanfloor* FC130 may be carried out using a rotary scrubbing machine with a water miscible cleaning agent or by hot water washing at temperatures up to 40°C.

Limitations

Expanfloor* FC130 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.

The durability of Expanfloor* FC130 in foot traffic areas is reduced in areas of very heavy traffic such as around work benches, drinks machines etc. It is advisable to either:

- specify additional coats in such areas or,
- specify a higher build system from Fospak flooring range.

Expanfloor* FC130 should not be applied at temperatures below 10°C or where ambient relative humidity exceeds 85%.

Estimating

Supply

Expanfloor* FC130	: 2.50 Kg. Pack.
Solvent 102	: 5 Ltr. Can

Coverage

Expanfloor* FC130	: 7.40 m ² / Kg. @ 100 microns wft/coat
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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 30°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* FC130, 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* FC130 is non-flammable.
Solvent 102 is flammable. Keep away from sources of ignition. No smoking. 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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