



Nitoflor Leveltop FLX*

Self leveling, flexible cementitious floor compound

Uses

Nitoflor Leveltop FLX provides a self leveling, cementitious finish or underlay for a wide variety of floor finishes which require a smooth level substrate, such as:

- Tiles
- Carpeting
- Vinyl sheeting
- Linoleum
- Rubber and other sheet flooring

Advantages

- Fluid consistency ensures that the product levels out on pouring to a smooth even surface
- Can be used directly on in situ or precast floors to provide smooth level surface without screeding
- Polymer modified formulation ensures excellent adhesion and flexibility to prepared substrates
- Quick easy laying and fast hardening
- Priming is not normally required

Description

Nitoflor Leveltop FLX is a blend of specially selected cements, graded aggregates, polymers and set control additives.

It is supplied as a dry, grey powder which requires only the addition of polymer to produce a smooth free flowing and self leveling material which can be laid to a feather edge.

This provides an ideal fairing material for leveling uneven, in situ or precast concrete floors.

Nitoflor Leveltop FLX has been carefully formulated to enable it to be applied at high ambient temperatures.

Properties

The test results below were determined on laboratory specimens and may vary from those obtained under site conditions.

BRE Screed Test	: > 1.5 mm indentation @ 28 days
Foot traffic	: 16 - 24 hours @ 20°C : 10 - 18 hours @ 35°C

Instructions for use

Preparation

The substrate should be clean, sound and free from loose material and contamination such as plaster, oil, paint and grease. New concrete should be at least 14 days old. Excess laitence should be removed by light scabbling or blasting. Light oil and grease staining can be removed with a proprietary chemical degreaser, followed by washing with clean water.

Large cracks and holes may be filled using a mix consisting of equal volumes of Nitoflor Leveltop FLX and clean sharp sand made up to a trowellable mortar by the addition of a small amount of water. For very dry and porous substrates, the surfaces must be sealed with Nitobond EP*† if impermeable coverings are to be used above Nitoflor Leveltop FLX. If permeable coverings are to be used, the surface should be soaked with wet hessian for several hours prior to priming and application.

Priming

The purpose of priming which is normally not required is to seal the substrate, to prevent air release from forming bubbles and pinholes on the surface of the Nitoflor Leveltop FLX. Extremely porous substrates will require at least two priming coats.

In this case, allow the previous coat to dry before applying the subsequent coats. The priming coat consists of 3:1 water: Nitoflor Leveltop FLX liquid which is brushed onto the substrate with a stiff brush and allowed to dry before application of Nitoflor Leveltop FLX.

Mixing

Nitoflor Leveltop FLX should be mixed in a forced action mechanical mixer or by a heavy duty drill fitted with a Fosroc Mixing Paddle (MR3). Slowly add the 16 kg of Nitoflor Leveltop FLX powder to the 4 kg of Nitoflor Leveltop FLX liquid to produce a smooth lump free material of a free flowing self leveling consistency.

Best results are obtained by using the following mixing procedure:

- a) Pour 4 kg of Nitoflor Leveltop FLX liquid into the mixing vessel.
- b) Slowly add the 16 kg of Nitoflor Leveltop FLX powder whilst continuously mixing, until a smooth consistency is obtained. Mix for a minimum of three minutes.

Do not mix more Nitoflor Leveltop FLX than can be reasonably laid within the flow time of the material i.e. 10 minutes @ 35°C. However, ensure that subsequent mixes are ready, to enable continuous pouring until the whole area to be surfaced is complete.

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Application

Pour the mixed material onto the primed substrate, spread with a trowel or squeegee and allow to self level. The material must then be rolled with a Fosroc Spiked Roller to achieve air release and final level. Rolling must be done immediately after placing the material. Do not attempt to float the setting surface.

If high spots or splashes occur these can be scraped off with the edge of a trowel after initial set.

The required thickness must be achieved in one application. Also the best results are achieved when the pouring and leveling is a continuous process until the designated area is completely leveled. Good site organization is essential.

Points to note

If a mix stiffens, it should be discarded. Do not attempt to remix with water.

On grade slabs must have a damp proof membrane in the subfloor. Any under floor heating must be switched off and the floor allowed cooling before applying Nitoflor Leveltop FLX.

Freshly laid Nitoflor Leveltop FLX should be protected from direct sunlight and/or strong drying winds until the material is hard (16 - 24 hours).

Curing

Curing is generally not required. However under harsh curing conditions such as high ambient temperatures above 35°C, drying winds etc., freshly hardened surfaces shall be cured for two days with wet hessian completely covered with a polythene sheet.

Floor adhesives

Non moisture sensitive adhesives can be applied immediately after the surface accepts foot traffic. Other types should not be applied until 96 hours have elapsed since the Nitoflor Leveltop FLX has been laid.

Cleaning

All tools and equipment should be cleaned with water.

Limitations

Application should not commence if the temperature of the substrate is below 5°C.

Estimating

Supply

Nitoflor Leveltop FLX powder	: 16 kg bags
Nitoflor Leveltop FLX liquid	: 4 kg cans
Nitobond EP	: 1 & 3 kg packs

Coverage

Nitoflor Leveltop FLX	: 1.7 kg/m ²
Nitobond EP	: 3.0 - 3.5 m ² /kg (Dependent upon porosity of the surface and surface profile.)

Storage

All of the above products have a shelf life of 6 months if kept in a dry store in their original unopened packages. Store in cool, dry conditions in original unopened packs. If stored at high temperature and/or high humidity conditions, the shelf life will be reduced.

Precautions

Health and safety

Nitoflor Leveltop FLX is non-toxic but is mildly alkaline. Gloves should be worn during use. Splashes to the skin should be washed with clean water. Accidental splashes to the eyes should also be washed with water but should prolonged irritation occur medical advice should be sought.

Fire

Nitoflor Leveltop FLX is non-flammable.

Cleaning and disposal

All tools and equipment should be cleaned with water.

* Denotes the trademark of Fosroc International Ltd.

↑ See separate data sheet



Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service.

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