

Nitoflor Leveltop GP*



constructive solutions

Self smoothing, cementitious floor compound

Uses

Nitoflor Leveltop GP provides a self leveling, cementitious 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

- Can be used directly on in situ or precast floors to provide smooth level surface without screeding
- Excellent adhesion to prepared substrates
- Quick easy laying and fast hardening
- One pack product – simply mixed with water on site

Standards compliance

Nitoflor Leveltop GP exceeds the UK Building Research Establishment requirements (CP 72/78 and IP 11/84) for Category a floor screeds.

Description

Nitoflor Leveltop GP 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 water 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 GP has been carefully formulated to enable it to be applied at temperatures up to 35°C.

Properties

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

Compressive strength : 15 N/mm ² @ 28 days	
BRE Screed Test	: < 3 mm indentation @ 28 days
Flow (BS 890 Cone)	: Initial - 280 mm
	: @ 30 minutes - 240 mm
	: @ 60 minutes - 200 mm
Foot traffic	: 24 - 36 hours @ 25°C
	: 24 hours @ 35°C

Instructions for use

Preparation

New concrete should be at least 14 days old. The substrate should be clean, sound and free from loose material and contamination such as plaster, oil, paint and grease. Excess laitence should be removed by light scabbling, blasting or etching with Fosroc Acid Etch diluted 1:1 with followed by washing and vacuuming to remove dust debris. Light oil and grease staining can be removed with 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 GP and clean sharp sand made up to a trowellable mortar by the addition of a small amount of water. Prime the substrate with a 1:1 mix of water and Nitobond PVA prior to effecting the repair.

Priming

The purpose of priming is to seal the substrate, to prevent air release from forming bubbles and pinholes in the surface of the Nitoflor Leveltop GP. The substrate should be primed using a 3:1 mix of water and Nitobond PVA, which should be brushed in to the substrate using a stiff brush and allowed to dry before the application of Nitoflor Leveltop GP. 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 surface should be per-soaked with wet hessian for several hours prior to priming and application.

Mixing

Nitoflor Leveltop GP should be mixed in a forced action mechanical mixer or by a heavy duty drill fitted with a purpose made Mixing Paddle. Each 25 kg bag of Nitoflor Leveltop GP requires the addition of **5.8- 6.0 litres of cool, clean water** to produce a free flowing self leveling consistency. (*water addition will vary according to each site condition*). Best results are obtained by using the following mixing procedure:

- Pour 2/3 the mixing water in to the mixing vessel.
- Slowly add the 25 kg of Nitoflor Leveltop GP whilst continuously mixing, until a smooth consistency is obtained. Mix for a minimum of five minutes.
- Slowly add the remaining 1/3 water mixing throughout to obtain a smooth, self leveling, pourable mix.

Do not mix more Nitoflor Leveltop GP 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 of the whole area to be surfaced. For thicknesses over 10 mm, Nitoflor Leveltop GP can be filled out with clean sharp silt free sand (e.g. BS 882:1983 Grade M) or use Fosroc Antislip Grain No. 3, which is especially graded for the purpose. Equal weights of sand and Nitoflor Leveltop GP should be used. **Extra water is NOT necessary.**

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Application

Good Site organization is essential - the required thickness must be achieved on one application. Best results are achieved when the pouring and leveling is a continuous process until the designated area is completely leveled. 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.

Points to note

Sand filled Nitoflor Leveltop GP screed must be laid by trowel in one layer. Slabs on a sloping gradient must incorporate a damp proof membrane in the subfloor. Cool water is advised for mixing (temperature around 20°C or less). Freshly laid Nitoflor Leveltop GP should be protected from direct sunlight and/or strong drying winds until the material is hard (24 - 48 hours).

Floor adhesives

Proprietary floor adhesives should be applied 48 hours after application of Nitoflor Leveltop GP.

Curing & cleaning

Curing is generally not required. However under harsh curing conditions such as high ambient temperatures, drying winds etc. freshly hardened surfaces should be cured for 2 days with damp hessian completely covered with a polythene sheet. All tools and equipment should be cleaned with water.

Limitations

- Application should not commence if the temperature of the substrate is below 5°C.
- Nitoflor Leveltop GP should not be used on floors known to suffer from rising damp, unless treated with a suitable damp proof membrane.
- There should be no air flow over the floor area until the material has hardened (24 - 48 hours).
- Minimum application thickness of 3 mm is advised to sustain the standard physical performance of product.

Estimating

Supply

Nitoflor Leveltop GP	:	25 kg bags
Nitobond PVA	:	20 & 210 litre drums
Fosroc Acid Etch	:	4 & 20 kg cans

Coverage

Nitoflor Leveltop GP	:	5.0 m ² /25 kg bag @ 2 mm thick.
Nitobond PVA	:	Approximately 15 m ² /litre when diluted 3:1 water: Nitobond : PVA. The actual coverage may vary depending on the porosity of the surface to be primed.

Storage

All products above have a shelf life of 12 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 may be reduced.

Precautions

Health & safety & fire

Nitoflor Leveltop GP 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. Nitoflor Leveltop GP is non-flammable.

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 authority regulations.

For further information, refer to the product Material Safety Data Sheet. Cleaning and disposal

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