



LITOPLAN RAPID

FLOAT APPLICABLE LEVELLING PRODUCT FOR FAST DRYING AND FAST HARDENING VERTICAL AND HORIZONTAL APPLICATIONS FROM 1 TO 25 mm. THICKNESS.
INTERNAL USE



DESCRIPTION

A grey pre mixed levelling product in powder form based on special binding agents for fast application and fast drying; a fine grained inert substance with selected organic additives. C35 F10 classified according to EN 13813. The product has the following features:

- Mixed with 20% water (5 litres per 25Kg bag) it will provide a thixotropic paste easily applicable to vertical surfaces, without running. Increasing the amount of water to 24% (6 litres per 25Kg bag) you will obtain a workable mortar ideal for use in horizontal applications.
- The material will develop high resistance to flexing and compression a few hours after application
- It is possible to obtain a smooth superficial finish using a dampened sponge float. This procedure must be carried out after the applied product has started to set and it has sufficiently hardened
- High adhesive property when used upon traditional concrete surfaces

- No shrinkage
- High abrasive resistance

FIELDS OF APPLICATION

Suitable for levelling and stabilising vertical and horizontal interior surfaces with variable thickness from 1 to 25 mm in one application. The following are examples of typical applications:

- Levelling of concrete screeds, also made with LITOCEM, a base of anhydrite or fine asphalt
- Levelling of heated screeds
- Levelling of concrete slabs or walls
- Levelling of cement based plaster
- Levelling of horizontal and vertical surfaces made of ceramic, marble or natural stone
- Restoration or levelling of steps, corners of pillars, or depressions and holes present in floor surfaces

PACKAGING

25 kg bags - 1500 kg standard pallet

SUITABLE SURFACE	MINIMUM CURING TIMES	MAXIMUM RESIDUAL HUMIDITY	GENERAL CONDITIONS
Concrete screeds	28 days	3%	Clean and dry Solid and compact No cracks or fractures Sufficiently cured Free from rising damp .
Heated concrete screeds	28 days	3%	
LITOCEM screeds	24 hours	3%	
Concrete	6 months		
Anhydrite screeds		< 0,5%	
Existing floor surfaces in ceramic or marble			

SURFACE PREPARATION

Porous or dusty cement screeds must be treated with PRIMER C
Concrete surfaces must be pre-treated with PRIMER C in order to improve the adhesive qualities of the levelling product

Anhydrite screeds must be sanded, dusted and isolated with a coat of PRIMER C

Old floor surfaces made of ceramic tiles or marble must be degreased using a solution of 10% caustic soda, then rinsed, dried and treated with LITOFIX primer

MIXING RATIO

LITOPLAN RAPID - 25 kg (1 bag)

WATER: 5 litres (20%) thixotropic mix - 6 litres (24%) workable mix

MIX PREPARATION

Pour the right quantity of water into a clean container; slowly add the powder, using an electric drill with a mixing auger. Mix until you obtain a lump-free workable material.

Leave to rest for approx 3 minutes and then mix again for a few seconds. The life span of the mix is approx 25 minutes at a temperature of +23°C; therefore we recommend only mixing the quantity that you can use within this time frame.

APPLICATION

The mix can be directly applied to the surface to the depth required using a long metal float. It is possible to apply more coats in a rapid

sequence of about 1 per hour, depending on environmental conditions.

For successive applications on ceramic and natural stone surfaces, leave 4-6 hours between applications. For vinyl or parquet flooring, wait 24 hours between applications.

These waiting times are affected by temperature and humidity.

To use LITOPLAN RAPID on parquet flooring, the minimum depth must be no less than 3 mm and the residual humidity must not exceed 2%, measured with a moisture tester.

WARNINGS

- Do not add lime or cement to the product
- Do not apply the product to surfaces that show signs of rising damp
- Do not use this product for levelling external surfaces
- In order to achieve maximum adhesion when levelling absorbent surfaces, use PRIMER C prior to application

- Use correct quantity of water for the mix. Excessive quantities of water may increase the hardening times of the product or may cause cracks, deformations, or dusty and inconsistent surfaces

- The life span of the mix is approx 25 minutes at a temperature of +23°C. we recommend only mixing the quantity that you can use within this time frame.

- In hot climates, the material must be stored in a cool dry place away from direct sunlight

- Apply the product in temperatures between +5°C and +35°C

- Apply the product in a draft free area

- When using the material on parquet flooring, a minimum application of 3mm is required

- Do not use LITOPLAN RAPID for any applications other than those stated on this technical sheet.

SAFETY INFORMATION

Consult the Material Safety Data Sheet, available on request.

PRODUCT FOR PROFESSIONAL USE.

APPLICATION DATA

Mixing ratio	Water = 20% (5 litres per 25 kg bag) to obtain a thixotropic mix suitable for vertical applications. Water = 24% (6 litres per 25 kg bag) to obtain a workable mix suitable for horizontal applications.
Mix resting time	3 minutes
Mix consistency	Thixotropic – workable paste
Mix life	Approx 25 minutes at a temperature of +23°C
Application temperatures	From +5°C to +35°C
Applicable thicknesses per coat	From 1 to 25 mm per coat
Consumption	1,6 kg/m ² per each mm of thickness
Time to withstand walking	Approx 2 hours at a temperature of +23°C
Waiting time before floor application	Ceramic and natural stone: 4-6 hour - Parquet, textile and vinyl: 24 hours

IDENTIFICATION DATA

Appearance	Powder
Colour	Grey
Customs Code	3824 50 90
Shelf life	12 months in original packaging in a cool dry place

PERFORMANCE

According to EN 13813	C35 F10
Compression resistance after 24 hours	21 N/mm ²
Compression resistance after 28 days	35 N/mm ²
Flex resistance after 24 hours	5 N/mm ²
Flex resistance after 28 days	10 N/mm ²
Adhesion on concrete after 28 days	1,5 N/mm ²

Although the information provided on this technical sheet represents the best of our knowledge and experience, it is intended purely as a guideline.

The user must carry out preliminary practical tests for each specific job and is solely responsible for the final result..

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