



LITOLIV EXPRESS

FAST HARDENING AND DRYING FIBRE-REINFORCED SELF-LEVELLING CEMENT MORTAR FOR THE LEVELLING OF SCREEDS WITH THICKNESS OF 3 TO 40 MM. INTERNAL USE. PRODUCT WITH VERY LOW EMISSION OF VOLATILE ORGANIC COMPOUNDS.



DESCRIPTION

Self-levelling premixed grey powder mortar made of fast setting and drying special hydraulic binders, siliceous and calcareous aggregates of selected particle size and organic additives. The product, once mixed with water, is characterised by a great self-levelling ability, easily applicable by hand or plastering machine with worm screws with thicknesses ranging from 3 to 40 mm. LITOLIV EXPRESS shows high resistance to compression and bending even after 4 hours of application and its special drying speed allows for the subsequent laying of ceramic tiles, natural stone, textile and resilient materials in a very short time.

ADVANTAGES

- Product with very low emission of volatile organic compounds EC1-Rplus GEV-EMICODE - Class A + in compliance with French Regulations
- Absence of shrinkage during hardening that prevents the formation of cracks or fissures
- Suitable for levelling electric and hot water heating floor screeds
- Great price-quality ratio

EN 13813 CLASSIFICATION

LITOLIV EXPRESS is classified CT-C20-F5 in accordance with EN 13813 where CT indicates that the product is cement-based, while C20 and F5 respectively indicate the compressive and flexural strength after 28 days expressed in N/mm².

The compliance of the product with the EN 13813 harmonised standard is reported in the Declaration of Performance CPR-IT109 according to the European Regulation for construction products (CPR - Construction Products Regulation N: 305/2011/EU) and tested according to system 4 of the certification.

PACKAGING

20 kg sacks.
Standard 1200 kg pallet

INTENDED USE

LITOLIV EXPRESS is used to smooth screeds in interior spaces in residential and public/commercial spaces where heavy transit is not expected with thicknesses ranging from 3 to 40 mm with only one coat. Typical examples of application involve:

- Levelling of cement screeds in interiors made of LITOCER.
- Levelling on heating screeds.
- Levelling on sulphate/anhydrite screeds.
- Levelling on existing flooring made of ceramics, natural stone and tiles.
- Levelling of concrete slabs.

PREPARATION OF THE SUBSTRATES

The substrates must be clean, dry, solid, compact, seasoned enough, without loose parts and without rising damp. Any cracks or crevices should be repaired with DECOR PRIMER FONDO by sprinkling the surface still fresh with sand or dry grain size quartz 0.4 - 1 mm. Substrates that are excessively porous and absorbent or dusty on the surface should be treated with PRIMER C. The use of PRIMER C favours in any case, the spread ability and levelling of the product by closing the porosity of the screed. Smooth and compact substrates for example smooth concrete, old ceramic or tiles, should be treated with the primer which promotes the adhesion of LITOFIX after being properly degreased with a solution of water and caustic soda or with specific alkaline detergents. Sulphate/anhydrite screeds must be sanded down before and treated with PRIMER C or PRIMER X94. In this case check with a carbide hygrometer that the maximum moisture content does not exceed 0.5%.

PRELIMINARY CHECKS

Site conditions: verify that the conditions of temperature, humidity, lighting, etc. at the time of product application are adequate.

Use and storage of the material: verify that the product is suitable for the intended use by consulting the relevant technical data sheet and is properly stored.

Expansion joints: verify that the perimeter flexible expansion, fraction and structural joints are properly designed and prepared. Generally, fraction joints must be provided for allotments of 50 m² or 25/30 m² in case of heating floors. For environments with surfaces less than 50 m² provide for expansion joints at the doorstep.

MIXING PROPORTIONS

LITOLIV EXPRESS 20 kg. (1 sack) – Water 4,4 - 4,8 l (22-24%)

PREPARING THE MIXTURE

Pour the right amount of water into a clean container and slowly add the powder mixing at low speed with an electric drill equipped with a mixing paddle until a homogeneous mixture free of lumps is obtained. Let the mix rest for at least 3 minutes and mix again for a few seconds. LITOLIV EXPRESS once mixed with water can be worked for approximately 30 minutes. Mixing only the amount of material applied during this time period is recommended, avoiding waste. If the product is applied with a plastering machine equipped with vertical axis mixer, the quantity of mixing water should be the same as the manual preparation and mixing must be carried out until complete homogenisation before laying on the mix.

APPLICATION

Spread the mix manually or by machine on the substrate with the help of a blade or smooth steel spatula creating a thickness between 3 and 40 mm in one coat respecting the expansion joints.

SUITABLE ADHESIVES FOR LAYING

24 hours after the application of LITOLIV EXPRESS, it is possible to lay ceramic tiles, natural stone, parquet, textile and resilient materials. For laying ceramic tiles and natural stones, cement adhesives can be used with normal setting of class C2, quick-hardening of class C2F or reactive compounds of class R2 depending on the size of the tiles, intended use or the type of natural stone. For laying parquet we recommend the use of epoxy-polyurethane two-component adhesives of LITOPAR P2 type.

COMPATIBLE WATERPROOFING LINING

The eventual waterproofing of the layer based on LITOLIV EXPRESS can be done 24 hours after application and before the laying of ceramic material using conventional cement two-component waterproofing lining of ELASTOCEM or COVERFLEX (CM) type or in aqueous dispersion of HIDROFLEX (DM) type.

WARNINGS

- Do not add lime or cement to the product.
- Do not use on substrates that have rising damp.
- Apply at temperatures between +5°C and +35°C.
- Use the proper amount of water for the mixture. Excessive amounts of water lead to a lengthening of the hardening time, the

possible formation of cracks and detachments, surfaces that are powdery or not consistent.

- The life time of the mix is about 30 minutes at a temperature of +23°C. Mixing only the amount of product that can be used within this time period is recommended.
- In the presence of warm climates store the product package in a cool place protected from the sun before use.
- In case of laying of parquet floors, create a minimum thickness of 3 mm.
- Gypsum or anhydrite screeds must be sanded down and pre-treated with PRIMER C or PRIMER X94, checking with a carbide hygrometer that the maximum moisture content is below 0.5%
- Do not use the product for applications not stated on this technical sheet
- In case of doubt, contact the LITOKOL Technical Assistance

INFORMATION ON SAFETY

Refer to the product's safety sheets available upon request.

PRODUCT FOR PROFESSIONAL USE

SPECIFICATIONS

The regularisation of the horizontal substrates in indoor environments in thickness varying between 3 and 40 mm must be done with self-levelling, quick-hardening and drying mortar of CT-C20-F5 class compliant with EN 13813 of LITOLIV EXPRESS type manufactured by Litokol S.p.A. suitable for subsequent installation of ceramic, natural stone, parquet, textile and resilient material after 24 hours. Apply the product with a blade or smooth spatula on the substrate treated in advance, clean and dimensionally stable.

APPLICATION DATA

Mixing proportions	Water = 22 - 24% (4,4 – 4,8 litres per 20 kg sack)
Ageing time of the mix	3 minutes
Consistency of the mix	Self-levelling fluid
Pot life	About 30 minutes at a temperature of +23°C
Admitted application temperatures	From +5°C to +35°C
Applicable thickness	From 3 to 40 mm per coat
Consumption	1.6 kg/m ² for each mm of thickness
Open to pedestrian traffic	After about 3 hours drying at a temperature of +23°C
Waiting time for bonding	24 hours
Cleaning the equipment	With water on fresh product. Mechanically on hardened product

IDENTIFICATION DATA

Appearance	Powder
Colour	Grey
Classification according to EN 13813	CT-C20-F5
Custom classification	3824 5090
Storage time	12 months inside the original packaging, in a dry place

PERFORMANCE

Emission of volatile organic compounds (VOC)	EC1-R plus GEV-Emicode - Class A+ in compliance with French Regulations
Adhesion to concrete after 28 days (EN 13892-8)	≥ 1 N/mm ²
Compressive strength after 28 days (EN13892-2)	≥ 20 N/mm ²
Flexural strength after 28 days (EN 13892-2)	≥ 5 N/mm ²

Although the information in this technical chart is from our best experience, it is merely indicative. Each specific case must be subjected to practical preliminary tests by the user who undertakes the responsibility for the final work result.

Sheet No. 109

Revision no.1

Date: September 2014

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