

LITOLIV S40 ECO

FAST HARDENING AND DRYING CEMENTITIOUS SELF-LEVELLER FOR THICKNESSES FROM 3 - 40 mm. FIBRE-REINFORCED. FOR INTERIORS AND EXTERIORS. SUITABLE FOR HEATED FLOORS.



DESCRIPTION

Ready-mixed cementitious powder self-leveller consisting of special hydraulic binders, inert fillers of selected particle size, organic additives and synthetic fibres. The product has the following characteristics:

- Excellent self-levelling capacity
- Fast hardening and drying time
- High mechanical flexural and compressive strength
- High bond strength on conventional cementitious substrates
- No shrinkage
- Excellent abrasion resistance

ADVANTAGES

- Product with ultra-low volatile organic compound (VOC) emission rate, which satisfies the requirements of classes EC1^{PLUS} according to the GEV-Ecodec protocol and class A+ (Émission dans l'air intérieur – French regulations).
- Fibre-reinforced product with improved resistance to expansion stresses in heated floors.

EN 13813 CLASSIFICATION

Litoliv S40 ECO satisfies the requirements of C20 F5 according to EN 13813. The product conforms to EN 13813 regulations, indicated on the Performance Declaration CPR-IT 103, as per the European Construction Products Regulation (No. 305/2011/EU) according to system 4 certification.

FIELDS OF APPLICATION

Suitable for levelling horizontal surfaces in interiors and exteriors with a thickness of between 3 and 40 mm in a single layer.

PACKAGING

20 kg bags. - Standard pallet 1,200 kg.

SUBSTRATE PREPARATION



The substrates on which Litoliv S40 ECO is applied must be clean, solid, compact, without any cracks, properly cured and without rising damp.

Porous cement screeds with powdery surfaces must first be treated with Primer C consolidating primer.

In anhydrite screeds, check for the presence of a suitable vapour barrier in order to prevent rising damp. Use a carbide method hygrometer to check that the residual moisture is less than 0.5%. The surface must be sanded and treated with Primer C.

Interior concrete substrates must first be treated with Primer C to improve adhesion of the self-leveller.

Old ceramic and porcelain tiles or agglomerate floors must be degreased using a 10% caustic soda solution, then rinsed and treated with the Prepara Fondo EVO adhesion promoter.

MIX RATIO

Litoliv S40 ECO - 20 kg (1 bag) - Water: 4.8 l (24%)

MIX PREPARATION

Pour the right quantity of water into a clean container and slowly add the powder, stirring with an electric drill fitted with a mixing paddle until obtaining a smooth and consistent mix without any lumps. Leave the mix to settle for about 5 minutes and then briefly mix again for a few seconds. The pot life is about 20 minutes at a temperature of +23°C.

APPLICATION

Pour the mix directly onto the substrate. Spread the product using a smooth steel trowel or a float to obtain the required thickness. The product can also be applied using a plaster pump. Ceramic and porcelain tiles, parquet, resilient or textile flooring can then be installed after about 12-24 hours depending on the applied thickness and ambient temperature. When laying parquet flooring, apply a minimum thickness of at least 3 mm and check the moisture content using a carbide method hygrometer before bonding (maximum moisture content = 2%).

RECOMMENDED ADHESIVES

Ceramic and porcelain tiles, stoneware, clinker, terracotta, etc.

C2-C2F class cementitious adhesives

Natural or reconstituted stone

Litostone K99 - Litoflott K88 – Litoelastic EVO

WARNINGS

- Do not add lime or cement to the product.

- Do not apply the product to substrates that show signs of rising damp.

- Prior treatment of absorbent substrates with Primer C improves the adhesion and fluidity of the self-leveller.
- Be sure to use the correct amount of water in the mix. Too much water may result in longer hardening times and increase the risk of cracks and flaking, powdery and crumbly surfaces.
- The pot life is about 20 minutes at a temperature of +23°C. Be sure to mix only the quantity of product that can actually be used within this period of time.
- In warm climates, keep the packaged product in a cool and dry place away from the sun before use.
- Apply the product at temperatures between +5°C and +35°C

- Do not apply the product in the presence of strong air currents.
- When laying parquet, apply a thickness of at least 3 mm
- Do not use the product for applications not stated in this technical sheet.

SAFETY INFORMATION

Consult the product safety data sheet, available on request.
PRODUCT FOR PROFESSIONAL USE.

APPLICATION DATA

Mix ratios	Water = 24% (4.8 l for 1 20 kg bag)
Mix curing time	5 minutes
Consistency of mix	Fluid
Pot life	Approx. 20 minutes
Application temperatures	From +5°C to +35°C
Maximum application thickness	40 mm
Consumption	1.6 kg/m ² per every mm of thickness
Set to light foot traffic	6 hours
Ready for bonding	Ceramic tiles and natural stone: 12 hours Resilient materials and parquet: 24 hours

IDENTIFICATION DATA

Appearance	Powder
Colour	Pinkish grey
Customs code	3824 5090
Shelf life	12 months in original packaging when stored in a dry place

PERFORMANCE

According to EN 13813	C20 F5
Flexural tensile strength after 28 days	≥ 5 N/mm ²
Compressive strength after 28 days	≥ 20 N/mm ²
Adhesion to concrete after 28 days	≥ 1 N/mm ²

Although the information provided in this technical data sheet is accurate to the best of our knowledge and experience, it is intended purely as a guideline. The user must carry out preliminary practical tests before each use and is solely responsible for the final result.

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