



F.77 Cerliv maxi

Self-levelling nanotechnological cement-based compound, based on special binders and synthetic additives with a fast drying and setting time. Thicknesses from 3 to 30 mm per coat.

Can be applied with a pump. For indoor use.
PROFESSIONAL USE.



SUITABLE APPLICATIONS

- For levelling new and pre-existing cement-based screeds with differences in thicknesses up to 30 mm per coat.
- For domestic and industrial environments, areas subject to heavy traffic on substrates in cement, cast and precast concrete, heated screeds, screeds with fast or semi-fast drying time such as F.69 CERMALT PRONTO, F.69 CERMALT or F.67 MALTARAPID and anhydrite screeds (with prior application of F.28/G APPRETTO) and existing flooring with HAFTPRIMER S previously applied.
- For levelling heated screeds incorporating electric heating cables or for the preparation for underfloor heating systems with a low thickness.

UNSUITABLE APPLICATIONS

- Do not apply directly onto:
- substrates which have not completed the shrinkage from ageing process;
 - existing flooring with discontinuous absorption (render the absorption uniform by applying F.28/G APPRETTO);
 - glazed tiles (improve the grip by roughening the substrate by grinding or apply a coat of HAFTPRIMER S with a brush or roller);
 - floors in vinyl, wood, rubber, epoxy or polyurethane or acrylic paints (apply a coat of HAFTPRIMER S with a roller or brush);
 - anhydrite-based substrates (beforehand apply a coat of F.28/G APPRETTO);
 - metal surfaces;
 - do not use for thicknesses lower than 3 mm.

WARNINGS

- Do not add further water to a mix which has already begun to set;
- do not apply onto frozen substrates, or substrates with a risk of frost in the next 24 hours;
- for the laying of wood and resilient flooring check that the residual moisture measured with a carbide hygrometer is lower than 2%.

PREPARATION OF THE SUBSTRATES

The substrate must be solid, rough, dimensionally stable, with all shrinkage from ageing completed, hard, clean, and free from dust, crumbly parts, varnishes, waxes, oils, rust, traces of gypsum and residues of old adhesives used for PVC, carpet or other materials. Any cracks or splitting can be sealed with F.48 POXYCEM / F.49 POXYRAPID or F.76 MALTA ESPANSIVA COLABILE. Absorbent and insufficiently solid substrates can be consolidated with prior application of F.32 PROCEM o F.28/G APPRETTO.



PREPARATION OF THE MIX

Mix with clean water. Mix carefully with a low-speed electric drill with a helical mixer, until you obtain a homogeneous mortar free from lumps, fluid and which flows well. Leave the mixture to rest for 5 minutes, checking that superficial surfacing of water does not appear; if this occurs, add more powder and mix again. Do not add water to make the mixture more fluid as this could compromise the final characteristics of the mortar. A higher quantity of water can lead to surface stains and/or white/yellowish streaking, which will impede any further bonding; furthermore this will lead to higher shrinkage which can cause cracks, splitting and detachment of the applied layer. Mix a quantity which will be used within 20-30 minutes.

APPLICATION

Spread the product in a single coat only for a thickness between 3 and 30 mm using a squeegee or a large metal trowel (such as F.91/4) or also a plaster pump. If a second coat is considered necessary, it is advisable to apply it 3-6 hours after the application of the first coat, and while the first coat is still wet.

COVERAGE

Approx 1,7 kg/m² per mm of thickness (according to the substrate).

CLEANING

Wash hands and equipment with water before setting. Afterwards use F.80 CERNET (acid detergent), undiluted or diluted with water, or clean mechanically.

PACKAGING

25 Kg bags on pallets.

SAFETY INSTRUCTIONS FOR PREPARATION AND INSTALLATION

F.77 CERLIV MAXI contains cement which, if in contact with perspiration or other body fluids, will produce an irritant alkaline reaction. Wear gloves and safety goggles. For further and complete information, it is recommended to refer to the latest version of the safety data sheet.

TECHNICAL DATA

Classification according to EN 13813	Class CT C35-F7-A2 fl
Appearance	Grey premixed
Hazard classification (directive 1999/45/CE)	No (for further information see the safety data sheet)
Mixing ratio	18-19%
Volumic mass of mix	2050 Kg/m ³
Application temperature range	from +5°C to +35°C
*Pot life	20/30 min.
* Setting time	50/70 min.
*Walk-over time	3 hours
*Waiting time for laying (depending on thickness)	3-6 hours for ceramic 6-8 hours for natural stone 12/24 hours for parquet and resilients (max. humidity 2%)
Thermal resistance	from -30°C to +90°C
EMICODE	EC1R – very low emission
VOCs (Rule # 1168 of California's SCQAMD) USGBC – LEED U.S.	0 g/L
Storage	12 months in original packaging in a dry place
PRODUCT CONFORMS TO THE SPECIFICATIONS ESTABLISHED BY REG. (CE) NO. 1907/2006 (REACH) - ANNEX XVII, ITEM 47	

*Data obtained at +23°C and 50% Relative Humidity.

FINAL PERFORMANCE

Compressive resistance EN 13813		Flexural resistance EN 13813	
After 24 hours	≥ 20 N/mm ²	After 24 hours	≥ 3,5 N/mm ²
After 7 days	≥ 27 N/mm ²	After 7 days	≥ 5,0 N/mm ²
After 28 days	≥ 35 N/mm ²	After 28 days	≥ 8,0 N/mm ²

Bonding to concrete after 28 days	≥ 1,0 N/mm ²
Resistance to abrasion Taber abrasion tester (abrading wheel H 22-550 g -200 revolutions) Expressed as weight loss	
After 7 days	1,5 gr
After 28 days	1,2 gr

Brinell Hardness (N/mm²)	
After 24 horas	70 N/mm ²
After 3 days	80 N/mm ²
After 7 days	90 N/mm ²
After 28 days	100 N/mm ²

LEED® SCORE - GBC ITALIA

LEED® SCORE SUPPORT*	LEED® SCORE
MR Credit 5 – Regional Materials	up to 2
QI Credit 5 – Materials with low emissions	up to 1

* LEED is a measurement system for environmental performance intended for commercial, institutional and residential buildings, based on environmental and energy standards, commonly recognized and accepted by the international scientific community. To conform to LEED's evaluation system of building sustainability is a voluntary choice made by a company. The reference to calculate the score is given by the requirements contained in the LEED Italia Manual "Nuove Costruzioni e Ristrutturazioni" ("New Buildings and Reconstructions") - Ed. 2011 - © 2010, Green Building Council Italia, U.S. Green Building Council, all rights reserved.

SPECIFICATIONS

Substrates must be levelled with a cement-based self-levelling compound, with a fast setting and drying time, such as F.77 CERLIV MAXI by Cercol Spa, which permits the laying of ceramic and natural stones after 3-6 hours, the laying of wood and resilient after 12-24 hours, and which can be used to a maximum thickness of 3 to 30 mm per coat.

This technical data sheet is based on the knowledge acquired from our experience. We reserve the right to modify the data contained herein as a result of improvements and technical progress. Considering the different materials and diverse working techniques, which are outside of our control, we cannot accept any responsibility for the use of these instructions. We therefore recommend undertaking sufficient test applications and consulting our Technical Assistance service.

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