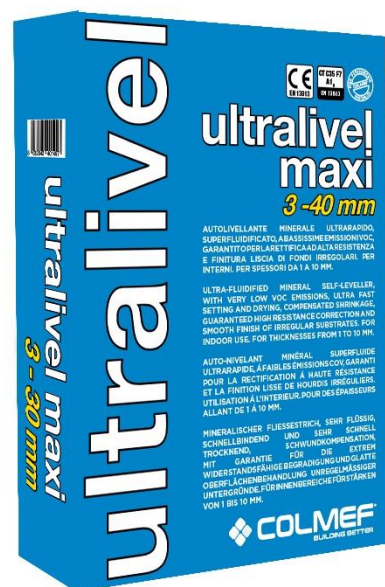


Ultralivel Maxi 3-40 mm

MINERAL SELF-LEVELLING, SUPERPLASTICIZED SMOOTHING COMPOUND, WITH ULTRA-RAPID SETTING AND DRYING, COMPENSATED SHRINKAGE, GUARANTEED FOR HIGH-STRENGTH LEVELLING OF IRREGULAR SUBSTRATES. FOR INTERIORS.

FOR THICKNESSES FROM 3 TO 40 mm. CLASS P 4 S.



TECHNICAL DATA SHEET - REVISION 11/2024

DESCRIPTION

ULTRALIVEL MAXI 3-40 mm is a premixed mortar made of special ultra-rapid-setting and drying cements, selected aggregates, additives and special synthetic resins. When mixed with water, it becomes a very fluid, free-flowing mix, easy to apply, with excellent adhesion to the substrate, perfectly self-levelling, ultra-rapid setting and drying, and compensated shrinkage. ULTRALIVEL MAXI 3-40 mm can be applied in a single coat from 3 to 40 mm thick, without shrinkage or the formation of cracks or crazing.

Complies with European Standard EN 13813 ("Screed material and floor screeds") for cementitious screeds (CT), class C30-F6 A1fl.

FIELDS OF APPLICATION

ULTRALIVEL MAXI 3-40 mm is used for smoothing and levelling cementitious screeds (both new and during renovation) with level differences up to 40 mm per coat, before laying ceramic tiles, parquet, resilient flooring, carpet, rubber, natural stone or other types of flooring. It is used to level old ceramic floors before installing a new floor over them, to smooth rapid-drying screeds, cement and cast or precast concrete substrates, and to form the levelling layer for heated screeds containing electric heating cables or installation substrates for low-build underfloor heating systems (< 30 mm above the pipe for low thermal-inertia screeds).

ULTRALIVEL MAXI 3-40 mm may only be used indoors, in residential and industrial environments, on substrates not subject to rising damp.

SUBSTRATE PREPARATION

Substrates must be mechanically strong, flat, solid, compact, free from friable or loose parts, dust, grease, oils, paints, waxes, residues of old adhesives used for PVC or carpet, or anything else that may impair perfect adhesion of the product.

Cementitious substrates must have completed hygrometric shrinkage, generally requiring at least 28 days of curing for cement screeds, unless made with NEOCEM PRONTO FIBRATO ready-to-use rapid-drying, compensated-shrinkage screed or with the special hydraulic binder NEOCEM.

Very porous, highly absorbent, weak or surface-dusting substrates must be treated with RASOTECH PRIMER CONSOLIDANTE consolidating primer or GRIPEX.

APPLICATION

To prepare the mix, pour 4,5-4,7 litres of clean water into a container and, while mixing, add one 25 kg bag of ULTRALIVEL MAXI 3-40 mm. Mix until a homogeneous, lump-free, fluid and free-flowing mixture is obtained. Allow to rest for 2-3 minutes, checking that no water appears on the surface; if it does, add more powder and remix. Mix only as much product as can be used within approximately 20-30 minutes. Spread ULTRALIVEL MAXI 3-40 mm over the substrate to be levelled in a single coat from 3 to 40 mm thick and distribute with a screed rake or smooth trowel, slightly tilting the trowel to obtain the required thickness. ULTRALIVEL MAXI 3-40 mm can also be applied using plaster pumps. Additional coats to reach the required level may be applied within 3-6 hours, and in any case while the first coat is still damp. Once ULTRALIVEL MAXI 3-40 mm has fully dried, flooring can be installed. Drying time depends on the applied thickness, temperature, ambient humidity and substrate absorbency. In all cases, before laying wood or resilient flooring, always check that the residual moisture is below 2%.

YIELD

1,6 kg/m² per mm of thickness (depending on substrate regularity).

RECOMMENDATIONS

- ◆ Do not use for exterior applications.
- ◆ Do not apply on substrates with excessive residual moisture, subject to rising damp, or on substrates that have not yet completed hygrometric shrinkage.
- ◆ Do not apply ULTRALIVEL MAXI 3-40 mm on old non-homogeneous flooring with uneven absorption (pre-treat with RASOTECH PRIMER CONSOLIDANTE).
- ◆ Do not apply ULTRALIVEL MAXI 3-40 mm directly to metal surfaces, vinyl flooring or rubber flooring.
- ◆ Do not apply ULTRALIVEL MAXI 3-40 mm directly to wood surfaces or epoxy, polyurethane or acrylic paints (pre-treat with GRIPEX adhesion promoter).
- ◆ Do not apply ULTRALIVEL MAXI 3-40 mm directly to anhydrite-based substrates; pre-treat them with RASOTECH PRIMER CONSOLIDANTE consolidating impregnating primer.
- ◆ Do not apply at temperatures below +5 °C.
- ◆ Do not add water to make the product more fluid, as this may compromise its final properties. Excess water could cause surface stains or colour streaks, impair adhesion of subsequent treatments and cause greater shrinkage with cracking.
- ◆ Do not add more water once the mix has started to set.
- ◆ Do not add lime, cement or gypsum to the mix.
- ◆ Do not use for thicknesses below 3 mm.
- ◆ Do not apply on frozen substrates or when frost is expected within 24 hours.

PACKAGING

ULTRALIVEL MAXI 3-40 mm is supplied in 25 kg polyethylene-lined paper bags on 1500 kg pallets. Store the product in dry conditions in its original, tightly closed packaging. Under these conditions, its shelf life is at least 12 months.

SAFETY INSTRUCTIONS

The product contains cement which, in contact with body perspiration, produces an alkaline reaction that is irritating and sensitizing to the skin. Wear suitable clothing, gloves and protective eyewear. For more information on safe use of the product, refer to the relevant Safety Data Sheet.

SPECIFICATION CLAUSE

Mineral, superplasticized self-levelling smoothing compound, with ultra-rapid setting and drying, compensated shrinkage, classified CT-C30-F6 A1fl according to EN 13813, type ULTRALIVEL MAXI 3-40 mm by Colmef Srl, guaranteed for high-strength levelling of irregular substrates, for thicknesses from 3 to 40 mm. Substrates must be dry, solid, free from dust, grease, paints, waxes, oils and anything that may impair product adhesion. The smoothing compound shall be applied only indoors in thicknesses from 3 to 40 mm and distributed with a screed rake or smooth trowel, at a consumption of 1,6 kg/m² per mm of thickness.

TECHNICAL DATA

Complies with Standard:	EN 13813
Class:	CT-C30-F6 A1fl
Appearance:	powder
Colour:	grey
Bulk density of mix (kg/m ³):	2050
Solid content (%):	100
Mixing ratio:	4,5-4,7 litres of water per 25 kg of powder
Pot life:	20-30 min.
Initial setting time:	50-70 min.
Foot traffic:	3 h
Waiting time before laying (depending on thickness):	
- ceramic tiles:	12 h
- parquet or resilient flooring (max. moisture 2%):	24 h
Permitted application temperature:	from +5 °C to +35 °C

FINAL PERFORMANCE according to EN 13813 Class CT-C30-F6 A1fl

	Results	Test method
Thermal conductivity (W/mK):	$\lambda = 1,35$	EN 12524
Thermal resistance:	from +30 °C to +90 °C	
Compressive strength (N/mm ²):		
- after 24 hours:	$\geq 20,0$	EN 13892-2
- after 7 days:	$\geq 27,0$	
- after 28 days:	$\geq 30,0$	
Flexural strength (N/mm ²):		
- after 24 hours:	$\geq 3,5$	EN 13892-2
- after 7 days:	$\geq 5,0$	
- after 28 days:	$\geq 6,0$	
Adhesion to concrete after 28 days (N/mm ²):	$\geq 1,0$	
Abrasion resistance (Taber Test)		
wheel H 22-550 g - 200 cycles:		
- after 7 days	1,5 g	
- after 28 days	1,2 g	

DATA MEASURED AT +23 °C - R.H. 50% AND NO VENTILATION

The information and recommendations above are based on our best experience. However, we cannot accept responsibility for incorrect use of the products. We therefore advise users to assess whether the product is suitable for the intended use and, in any case, to carry out preliminary tests. Always refer to the latest updated version of the technical data sheet, available at www.colmef.com.

FOR FURTHER INFORMATION OR SPECIAL USES, CONSULT COLMEF TECHNICAL ASSISTANCE SERVICE.

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