

Ultralivel Maxi 3-40 mm

MINERAL SELF-LEVELLING EXTRA FLUIDISED, EXTRA-RAPID SETTING AND DRYING, COMPENSATED SHRINKAGE, GUARANTEED FOR HIGH-RESISTANCE CORRECTION OF IRREGULAR SUBSTRATES. FOR INDOOR USE.

FOR 3-40 mm THICKNESSES. CLASS P 4 S.



TECHNICAL DATA SHEET - REV. 01/2023

DESCRIPTION

ULTRALIVEL MAXI 3-40 mm is a pre-mixed mortar consisting of special ultra-rapid setting and drying cements, selected aggregates, additives and special synthetic resins. When mixed with water, it turns into a very fluid and smooth mixture, which is 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 is applied for thicknesses ranging from 3 to 40 mm in a single coat, with no shrinkage and without forming cracks.

Conforms to European Standard EN 13813 (Screeds and materials for screeds) for cementitious screeds (CT) of class C30-F6 A1_{fl}.

FIELDS OF APPLICATION

ULTRALIVEL MAXI 3-40 mm is used for smoothing and regularising cement screeds (both newly built and in renovation) with level differences of up to 40 mm per coat, before laying ceramic tiles, parquet, resilient materials, carpets, rubber, natural stones or other types of flooring. It is used for levelling old ceramic floors before laying a new overlapping floor, for smoothing rapid-drying screeds, concrete and cast or prefabricated concrete substrates and applying the levelling layer for heating screeds containing electric coils or laying substrates for thin underfloor heating systems (<30 mm above the pipe for low thermal inertia screeds). ULTRALIVEL MAXI 3-40 mm can only be used for indoor installations, for civil and industrial environments, on substrates that are not subject to rising damp.

SUBSTRATE PREPARATION

The substrates must be mechanically resistant, flat, solid, compact, free of crumbling or inconsistent parts, without any dust and greasy substances, oil, paint, wax, residue of old adhesives used for PVC or carpets or and any material that could compromise perfect product adhesion.

The cementitious substrates must have already completed the evaluable hygrometric shrinkage in at least 28 days of total curing for cementitious screeds, unless they are made with quick-drying ready-to-use screed and NEOCEM PRONTO FIBRATO compensated shrinkage or with special NEOCEM hydraulic binder.

Very porous, highly absorbent, not very consistent and superficially crumbling surfaces must be treated with RASOTECH PRIMER CONSOLIDANTE consolidating impregnating agent or GRIPEX.

APPLICATION

To prepare the mixture, pour 4.5-4.7 litres of clean water into a container and add a 25 kg bag of ULTRALIVEL MAXI 3-40 mm, while stirring. Mix until a homogeneous, lump-free, fluid and smooth mixture is obtained. Let it rest for 2-3

minutes, checking that there is no surface water outcrop; in which case, add more powder and mix again. Only mix an amount of product that can be used within approx. 20-30 minutes.

Apply ULTRALIVEL MAXI 3-40 mm on the substrate to be levelled in a single coat in a thickness of 3 - 40 mm and distribute it with a doctor blade or smooth spatula, slightly tilting the spatula to obtain the intended thickness. ULTRALIVEL MAXI 3-40 mm can also be applied with plaster pumps.

Any over-applications to reach the intended variable can be laid within 3-6 hours and in any case, when the first coat is still wet.

You can lay the floors once ULTRALIVEL MAXI 3-40 mm has dried completely: the drying time depends on the applied thickness, the temperature, the humidity in the environment and the degree of absorption of the substrate. In any case, before installing wooden or resilient floors, always ensure that the residual moisture is less than 2%.

YIELD

1.6 kg/m² per mm of thickness (according to the regularity of the substrate).

RECOMMENDATIONS

- ◆ Do not use for outdoor applications.
- ◆ Do not apply on substrates with excessive residual humidity, which are subject to rising damp or substrates that have not yet completed the hygrometric shrinkage process.
- ◆ Do not apply ULTRALIVEL MAXI 3-40 mm on old non-homogeneous floors with intermittent absorption (treat it previously with RASOTECH PRIMER CONSOLIDANTE).
- ◆ Do not apply ULTRALIVEL MAXI 3-40 mm directly on metal surfaces or on vinyl or rubber floors.
- ◆ Do not apply ULTRALIVEL MAXI 3-40 mm directly on wooden surfaces or epoxy, polyurethane and acrylic paints (treat previously with GRIPEX adhesion promoter).
- ◆ Do not apply ULTRALIVEL MAXI 3-40 mm directly on anhydrite-based substrates but treat them previously with RASOTECH PRIMER CONSOLIDANTE consolidating impregnating agent.
- ◆ Do not apply in temperatures below +5°C.
- ◆ Do not add water to make the product more fluid as the final characteristics could be compromised. Excess water will cause the formation of stains or streaks of colour on the surface, which would compromise the adhesion of subsequent treatments as well as cause greater shrinkage with the formation of cracks.
- ◆ Do not add more water to the mixture when it has already started to set.
- ◆ Do not add lime, cement or gypsum to the mixture.
- ◆ Do not use for a thickness less than 3 mm.
- ◆ Do not apply on frozen substrates or substrates with the risk of frost within 24 hours.

PACKAGING

ULTRALIVEL MAXI 3-40 mm is available in 25 kg polyethylene coated paper bags on 1500 kg pallets. Store the product in a dry place and in its original packaging, well closed. In these conditions its stability is of at least 12 months.

SAFETY INSTRUCTIONS

The product contains cement that on contact with body perspiration produces an irritant alkaline and sensitising reaction for the skin. Use suitable clothing, gloves and protective glasses.

Consult the Safety Data Sheet for more information to use the product safely.

SPECIFICATIONS

Mineral self-levelling, extra fluidised, ultra-rapid setting and drying, compensated shrinkage, classified as CT-C30-F6 A1₁ by Standard EN 13813, **ULTRALIVEL MAXI 3-40 mm** type by Colmef Srl, guaranteed high resistance grinding of irregular surfaces for a thickness range of 3 to 40 mm.

The substrates must be dry, solid, free of dust, grease, paint, wax, oil and anything that can compromise the adhesion of the product.

The smoothing will only be applied indoors in a thickness range of 3 to 40 mm and distributed with a doctor blade or smooth spatula with a consumption of 1.6 kg/m² per mm of thickness.

TECHNICAL DATA

Compliant with Standard:	EN 13813
Class:	CT-C30-F6 A1_{fl}
Appearance:	powder
Colour:	grey
Volume mass of the mixture (kg/m ³):	2050
Solid residue (%):	100
Mixing ratio:	4.5-4.7 litres of water for 25 kg of powder
Mix pot life:	20-30 min.
Setting start time:	50-70 min.
Walkability:	3 h
Setting time for laying (depending on the thickness):	
- ceramic tiles:	12 h
- parquet or resilient material (maximum humidity 2%):	24 h
Allowed application temperature:	from +5 °C to +35 °C

FINAL PERFORMANCE according to EN 13813 Class CT-C30-F6 A1_{fl}

	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):		EN 13892-2
- after 24 h:	≥ 20.0	
- after 7 days:	≥ 27.0	
- after 28 days:	≥ 30.0	
Flexural strength (N/mm ²):		EN 13892-2
- after 24 h:	≥ 3.5	
- after 7 days:	≥ 5.0	
- after 28 days:	≥ 6.0	
Adhesion to concrete after 28 days (N/mm ²):	≥ 1.0	
Abrasion resistance (Taber Test) grinding wheel H 22-550 g - 200 rpm:		
- after 7 days	1.5 g	
- after 28 days	1.2 g	

DATA DETECTION AT +23°C - 50% R.H. AND IN ABSENCE OF VENTILATION

The information in this bulletin is based on our best experience. We cannot be held liable for any product misuse. We therefore recommend anyone who intends to use this product to assess whether it is suitable for the intended application and to perform preliminary tests in any case. Always refer to the latest updated version of the technical data sheet available at www.colmef.com.

FOR MORE INFORMATION OR PARTICULAR USES, CONTACT THE COLMEF TECHNICAL SUPPORT DEPARTMENT.

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