



KRONOS AUTOLIV

PREMIXED SELF-LEVELLING SMOOTHING MORTAR
FOR LOW THICKNESS APPLICATIONS - 1-10 mm

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Premixed self-levelling smoothing mortar for low thickness applications - 1-10 mm

PRODUCT	Premixed self-levelling mineral mortar in powder, ready to use, for manual and mechanical application. Composition: homogeneous mixture of selected aggregates: pure quartz with maximum grain size curve 0,5 mm, cement Portland 42.5 and special additives.
PACKAGING AND STORAGE	<ul style="list-style-type: none"> · Bag of 25 kg · Pallets of 48 bags = 1200 kg · It is recommended to use within 9 months from the packaging date. The product maintains its technical properties for over 12 months if properly stored (in a cool, dry place and protected from frost, water, and direct sunlight). It is recommended to use suitable protective devices.
FIELDS OF APPLICATION	<ul style="list-style-type: none"> · Levelling of cement base screeds with high resistance: it generates a suitable surface for PVC floor coverings, carpeting, laminated wooden floorings, ceramic, epoxy and polyurethane resins. · Suitable the high-strength straightening / levelling of base screeds prepared with Politerm® Blu and Isol-cap, before the laying of ceramic tiles, porcelained and marbled stoneware, natural stones and wooden flooring.
CONSUMPTION / YIELD	About 1,6 kg/m ² for 1 mm of thickness.
SURFACE CONTROL	<p>The surfaces to be levelled must be:</p> <ul style="list-style-type: none"> · Flat, clean, resistant, compact and not friable. · Irregular surfaces or accentuated grain size, for example concrete castings or sand-cement screeds: to be previously smoothed and levelled by smoothing mortar, before laying Kronos Autoliv. · With a difference not higher than 5 mm and not deeper than 10 mm. Otherwise these differences must be levelled before Kronos Autoliv application. · Free of dust, salts, substances compromising the right adhesion (eg. greases, bitumen, varnishes, powders, gypsum, old paints, etc.). · With neutral or basic pH value. · With standard degree of water absorption (between 3% and 6%). · Without cracks. Capillary cracks generated by screed dehydration during the setting phase, are accepted. Crack having dimensions > 0,3 - 0,5 mm are not accepted and should be eliminated before the laying of Kronos Autoliv. · Dry: residual moisture, measured at 2 - 3 cm of depth, should not exceed the value of 3%.
SURFACE PREPARATION	<p>After the verification of the support as mentioned above, the surface must be drawn and treated with the latex Edilstik, as follows:</p> <ul style="list-style-type: none"> · Surfaces with medium absorption (such as Edilteco lightweight screeds): apply Edilstik, diluted with clean water in ration 1:1, "fresh-on-fresh", before applying Kronos Autoliv (<i>for further information consult the application manual</i>). · Surfaces with high absorption (from 5% to 8%): apply abundantly Edilstik, diluted with clean water in ratio 1:4. Once dried, proceed with the application of Kronos Autoliv. · Surfaces with low absorption: apply, homogeneously, pure Edilstik. Once dried, proceed with the application of Kronos Autoliv.



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PRODUCT PREPARATION	<p>Following the prescribed dosage, mix Kronos Autoliv with clean water, always introducing <u>before water and than powder, never change this order</u>. The mixing can be executed with:</p> <ul style="list-style-type: none"> · Drill with low number of turns (max 500 turns/min) propeller supplied (for small surfaces). · Horizontal mixer type Turbomalt. · Plastering machine properly equipped. · Isolcap Mixer 50. <p>Pour ³/₄ of the mixing water into a clean container, add the powder, and mix for about 3 minutes with a low-speed machine, gradually adding the remaining mixing water until a homogeneous paste is obtained. Apply in a single solution.</p>	
APPLICATION	<ul style="list-style-type: none"> · Optimal thickness: 5 mm. Minimum thickness: 1 mm. Maximum thickness: 10 mm. For thickness over 10 mm lay Kronos Autoliv 5-30 · Mixing water: approx. 5,25 - 5,75 L for each bag of 25 kg. · In winter or under conditions of low temperatures and high humidity levels, the mixing water should be reduced by approximately 0,5 liters per 25 kg bag. However, the operator must still evaluate on a case-by-case basis during the product application phase to avoid an overdose of water that can lead to the phenomenon of bleeding/separation of components after application. · Never apply under direct sunlight, in presence of strong air currents or wind and with temperatures under +5 °C or over +35 °C. · To avoid phenomenon of separation, the mix must be lay immediately. · Do not use the mix if previously separated into the mixing container. · In case of mix prepared into little containers (1 bags at a time), we recommend to prepare them consecutively and to lay them homogeneously, with a time break of 3 - 4 minutes from each other. · After having laid the mix on the laying surface, lay it with a smooth spatula of 60 cm and treat it with suitable tool for breaking the possible bubbles. · The levelling operations must be executed by a maximum of 4 - 5 minutes from the laying and the operator should wear specific shoes with soles equipped with nails of 20 mm length. · After the application avoid a too fast drying, in order to avoid the formation of cracks. If necessary, we suggest to cover it with a polyethylene film. We also suggest to lightly moisten the surface when the mix becomes walkable. 	
WARNINGS	<ul style="list-style-type: none"> · Do not use Kronos Autoliv as finishing layer, for surfaces subjected to a heavy traffic or in external applications. · Separate the levelling mortar from absorbent surfaces (plasters, perimeter masonry, etc.) by the use of perimeter stripes. · In case of underfloor heating, close the plant at least 24 hours before the application of Kronos Autoliv and light it on again only after a complete drying. · Respect any possible joint on the laying surface. 	
TECHNICAL CHARACTERISTICS	Physical aspect:	powder
	Colour:	light grey
	Decomposition temperatures:	-
	Apparent volumetric mass:	≈ 2010 kg/m ³
	Toxicity:	none
	Inflammability:	none
	Mixing water:	≈ 5,25 - 5,75 L / 1 bag of 25 kg
	Mixing time (pot life):	≥ 30 minutes
	Limit temperature of application:	from +5 °C to +35 °C
	Walkable after:	≈ 24 hours
	Time for laying:	ceramic and terracotta floor: ≈ 24 hours wooden floor, resilient and natural stones: ≈ 7 days
	Adhesion on concrete (after 28 days):	≥ 0,5 N/mm ²
Surface adherence after frost / thaw cycles (after 28 days):	≥ 0,5 N/mm ²	



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TECHNICAL CHARACTERISTICS	Reaction to fire:	A1		
	Release of corrosive substances:	CT		
	Mechanical resistance:	compressive strength:	C30	
		flexural strength:	F6	
		wear resistance (Bohme):	A4	
	Sound absorption:	NPD		
	Thermal conductivity:	0,9 - 1,0 W/mK		
	Chemical resistance:	NPD		
	Acoustic insulation:	NPD		
	Water permeability:	$\leq 0,25 \text{ kg/m}^2\text{h}^{1/2}$		
Permeability to water vapor:	Sd=1m approx.			

All the indications provided in this technical data sheet are purely approximate and not binding for legal purpose. The data listed has been gathered from laboratory tests and it hence follows that in practical applications on building sites the final characteristics of the products may be subject to substantial variations depending on the meteorological conditions and the installation. The user must always check suitability of the product for its specific use, undertaking all liability implicit in and deriving from use of the product, as well as comply with all methods and instructions for use generally referable to "workmanlike" execution. Edilteco S.p.A. reserves the right to change the contents of this mechanical data sheet on its final judgements. The spreading of this data sheet through any media, supersedes and cancels the validity of any other technical data sheet previously published.



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