HERAMALT MULTIUSO

Premixed multipurpose cementitious mortar with high mechanical resistance

Prodotto conforme alla Norma CE UNI EN 998-1 GP-CSIV-W2 MALTE PER INTONACI

Prodotto conforme alla Norma CE UNI EN 998-2 M15 MALTE DA MURATURA

Prodotto conforme alla Norma CE UNI EN 13813 CT C16-F4 MASSETTI CEMENTIZI

CERTIFICATE EI 180 RESISTENZA AL FUOCO

FIBRATO

RESISTE AL GELO

TECHNICAL FEATURES

HERAMALT MULTIUSO is a special multipurpose premixed mortar, gray in colour, with controlled shrinkage and high mechanical resistance based on Portland cement, selected particle size aggregates, fibers and specific additives. Suitable for hand applications and ready to use with the addition of water only.
Thanks to its special formulation, as the quantity of mixing water varies during the mixing phase, **HERAMALT MULTIUSO** can be used for different applications, reducing storage spaces and facilitating handling on site.

FIELD OF APPLICATION

– Masonry mortar – HERAMALT MULTIUSO is certified as M15 class masonry mortar and can be used indoors and outdoors, as bedding mortar with high mechanical resistance (anti–seismic) for the elevation of brick masonry, concrete blocks, lightweight concrete, natural stones, etc.
– Base plaster – HERAMALT MULTIUSO can be used in interiors and exteriors in the creation of base coat plasters with high mechanical resistance, also reinforced with galvanized steel or FRP meshes. It can be used for regrowing masonry facings and for restoring the flatness of irregular masonry surfaces.
– Screed – HERAMALT MULTIUSO mixed to the consistency of "damp earth" can be used indoors and outdoors for the creation of screeds intended for laying ceramic flooring.

PREPARATION OF THE SUBSTRATE

– Masonry – The masonry elements must be solid and compact, free from loose parts, dust, oils, greases and anything else that could hinder adhesion. Wet to waste and wait for absorption avoiding water stagnation.
– Plasters – The substrates must be solid and compact, free from crumbly parts, dust, oils, greases and anything else that could hinder adhesion. Wet completely and wait for the water to be absorbed before applying the mortar. Do not apply on painted substrates, with poor consistency, on fiber cement or insulating panels.
– Screeds – The substrates must be stable, consistent and free from crumbly parts, free from dust, oils, greases and anything else that could hinder adhesion. For all application methods, the substrates must be dry and not present any risk of water rising due to capillarity. In this case, a barrier must be placed against the rising water. The screed must be separated from all vertical elements with the interposition of a strip of deformable material with a thickness of 10 mm for the entire height of the screed. In the case of irregular substrates with variable screed thicknesses, it is advisable to prepare an anchoring grout with the product itself. When laying floors sensitive to water or substrates at risk of rising damp, it is essential to apply a vapor barrier with polyethylene or PVC sheets overlapping each other by at least 15 cm, sealed with adhesive tape, raised on the walls and on the vertical elements, for the entire thickness of the screed.

MIX PREPARATION

HERAMALT MULTIUSO is mixed in a cement mixer or with a low speed mechanical stirrer. Mix with clean water in the quantity indicated in the table according to the desired consistency. The use of the correct quantity of mixing water guarantees the mechanical resistance performance declared.

Consistence	Mixing water	
Masonry mortar	**19 – 20%**	(4.75–5 liters per 25 kg bag)
Screed	**11 – 12%**	(2.7–3 liters per 25 kg bag)
Background plaster	**20 – 21%**	(5–5.25 liters per 25 kg bag)

Always add the powder to the water and mix until you get a smooth, lump–free mix. Leave the dough to rest for at least 2 minutes, then remix it before using. The mixed mortar must be used within 2 hours*.

APPLICATION

– Masonry – Apply by hand with a trowel or with spritz–beton type machines. Carry out the assembly of the blocks or bricks after placing alignments and sinkers. It is advisable to create rows of elements for a maximum height of 2.00 meters, then let the masonry settle; after at least 12 hours, continue building the masonry up to the intrados of the attic.

– Screeds – Apply like traditional type screeds: prepare the level strips, then pour, compact the mix, level and smooth with a trowel and mechanical means. In correspondence with the passage of pipes, where the thickness of the screed could be less, it is necessary to insert a

reinforcement in metal reinforcement mesh, galvanized with tight meshes. In correspondence with the construction joints, due to the suspension of the works, it is necessary to make a connection between the two castings by inserting iron rods of about 50 cm in length and using a coupling mortar (50% cement 25% synthetic latex 25% water).
– Plasters – Position edge protectors and reference strips using only the product itself. Apply the mortar with a trowel or spatula or spritz–beton type machines. Create thicknesses of maximum 30 mm and bring to level within 40 min. If used, remove the vertical metal guides previously positioned on the bands, and fill the tracks with the mortar itself.

CLEANING

The tools used for laying must be cleaned with water before the adhesive hardens; subsequently cleaning can only take place by mechanical removal.

ITEM OF SPECIFICATION

Reconstruction of the flatness of masonry facings, gluing of masonry elements, restoration and leveling of concrete elements, screeds, reinforced plastering, with ready–to–use premix with the addition of only water compliant with **EN 998–1**, **EN 998–2**, **EN 13813**, with class **WC2** water absorption, class **M15** compressive strength, type **HERAMALT MULTIUSO**, produced by **HERAKEM SRL**. Add the quantity of mixing water required according to the intended use and apply the mortar to the substrate with a trowel and/or spatula.

WARNINGS

- Protect the work carried out from rain, washout or frost and from the beating sun.
- In case of high temperatures or wind it is advisable to humidify the manufactured articles by nebulizing water.
- Do not apply on frozen substrates or in any case at ambient temperatures below +5°C.
- Do not apply the product on smooth substrates (e.g. prefabricated concrete).
- It is recommended not to add extraneous products.

TECHNICAL DATA *(at +22±1°C and 55±5% R.H.)			
Appearance	gray powder	Mixing water	Read sect. Mix Preparation
Maximum particle size	≤ 3 mm	Workability time	about 2 hours*
Density (powder)	approx. 1250 kg/m^3	Permitted application temperatures	from +5°C to +35 °C
Density (fresh mortar)	from 1700 to 2150 kg/m^3 depending on the application		
FINAL PERFORMANCE *(with 20% mixing water)			
Compressive strength	≥ 16 N/mm^2 (M15/R2/C16/CS IV)	Thermal conductivity coefficient $\lambda_{10,dry,mat}$	λ = 0,75 W/mK (tabulated value)
Flexural strength	≥ 5 N/mm^2	Resistance to ageing	excellent
Initial shear strength	≥ 0,15 N/mm^2	Moisture resistance	excellent
Water absorption	≤ 0,2 kg/(m^2·min^{0,5}) / Wc 2	Reaction to fire	Euroclass A1
Vapor diffusion resistance	15/30 μ (tabulated value)		

Consumption	**masonry mortar: 1.7 Kg/m^2 per cm of thickness plaster: 1.6 Kg/m^2 per cm of thickness mat: 1.8 Kg/m^2 per cm of thickness**	**Packaging**	**25 kg bag**

PRODUCT FOR PROFESSIONAL USE ONLY