

# Termix

**TECHNICAL REFRACTORY SUPERMORTAR WITH RAPID SETTING AND HYDRATION, HIGH THERMAL RESISTANCE, GUARANTEED FOR THE ASSEMBLY OF REFRACTORY ELEMENTS. EXCELLENT FOR ALL WORKS WHICH MUST RESIST TO HEAT FOR CIVIL USE. WITH HIGH ALUMINA CONTENT.**



**TECHNICAL DATA SHEET - REV. 01/2023**

## DESCRIPTION

TERMIX is a refractory technical mortar with a high alumina content, rapid setting and hydration, composed of calcium aluminates, clays, chamotte and various additives. Mixed with water, it transforms into an easily workable mix, with a thixotropic effect and high adhesion to the substrate. Once hardened, it has excellent mechanical strength and high heat resistance. It can be applied on all cementitious substrates normally used in construction, on refractory bricks, etc. TERMIX sets in one hour and hardens in six hours. It does not contain asbestos fibers or other products considered harmful to the health of the applicator.

## FIELDS OF APPLICATION

TERMIX is used for all jobs where high resistance to high temperatures is required, such as for the masonry of refractory bricks and refractory prefabricated elements for the assembly of fireplaces, ovens, flues, hoods, stoves, etc. Its particular composition it allows to obtain high mechanical resistance even at short curing times.

## SUBSTRATE PREPARATION

The substrates must be sufficiently dry and seasoned, mechanically resistant, planar, solid, compact, free of crumbly or inconsistent parts, free from dust, greasy substances, oils, varnishes, waxes or anything else that could compromise the perfect adhesion of the product. Wet the substrate, the bricks and all the parts to be joined with saturated water, eliminating any stagnation at the time of application.

## APPLICATION

To prepare the mix, pour about 2.5 liters of clean water into a container and slowly add a 10 kg bag of TERMIX under mechanical stirring. Mix carefully for a few minutes, until a homogeneous mixture without lumps is obtained. Prepare the amount of mortar needed for about 30 minutes of work. Apply the mortar manually with a trowel, in thicknesses of at least 1 cm up to a maximum of 4 cm, then position the bricks or other parts to be joined. Remove the excess mortar before it hardens. During the hydration phase it is advisable to abundantly wet the parts treated with the mortar with water, in order to avoid cracking due to too rapid hydration. Gradually light the first fire after at least 2 weeks, avoiding direct contact with the flame. This operation must be repeated at least 2 or 3 times. At the end of this operation, the implementation will be fully efficient.

## YIELD

19 kg/L.

## RECOMMENDATIONS

- ◆ TERMIX is a cementitious product and, as such, all the precautions for correct curing must be observed. The surface must be protected from too rapid evaporation.
- ◆ Variations in temperature cause increases or decreases in the start and end setting times of the product.
- ◆ It is important not to stir the product once it has started to set: it would lose all its chemical-physical properties.

## PACKAGING

TERMIX is supplied in 10 kg multilayer paper bags on 1500 kg pallets and in 5 kg cartons on 720 kg pallets. Store the product in dry environments and in the original tightly closed packaging. In these conditions its stability is at least 12 months.

## SAFETY INSTRUCTIONS

Take all normal precautions and wear personal protective clothing (gloves, goggles) to prevent possible sensitization and skin irritation due to contact with the cement.

For further information on safe use of the product, consult the relative Safety Data Sheet.

## SPECIFICATIONS

Assembly of refractory elements with refractory technical supermortar with rapid setting and hydration, high thermal resistance, with a high alumina content, such as **TERMIX** by Colmef Srl, guaranteed for all works that must resist heat for civil use.

## TECHNICAL DATA

Appearance:	powder
Colour:	grey white
Apparent specific weight (g/cm <sup>3</sup> ):	1,3
Solid residue (%):	100
Mixing ratio:	~ 2,5 litres of water for 10 kg of powder
pH value:	≥ 12
Maximum particle size (mm):	0,7
Setting start time:	30 min.
Allowed application temperature:	from +5 °C to +35 °C

## FINAL PERFORMANCE

	Results	Test method
Thermal resistance (°C):	1000	-
Reaction to fire:	Class A 1 (tabulated value)	EN 13501-1
Adhesion to refractory bricks (N/mm <sup>2</sup> ):	≥ 0,3	EN 1015-21
Compressive strength (N/mm <sup>2</sup> ):	≥ 20	EN 1015-11

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](http://www.colmef.com).

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

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