



COLMEF[®]
BUILDING BETTER

Vetromix

**HIGH-WORKABILITY MINERAL ADHESIVE MORTAR,
SHRINKAGE-COMPENSATED, LOW WATER ABSORPTION,
PERFECTLY WHITE WITH A HIGH DEGREE OF FINISH.
GUARANTEED FOR THE INSTALLATION AND
SUBSEQUENT SEALING OF GLASS BLOCK ELEMENTS
ON VERTICAL STRUCTURES. FOR INTERIOR AND EXTERIOR USE.**



TECHNICAL DATA SHEET - REVISION 01/2023

DESCRIZIONE

VETROMIX is a powder mortar based on hydraulic binders, synthetic resins and spherical aggregates that reduce the possibility of damaging the surface of the glass block element. Mixed with water, it becomes an easy-to-work product, adhesive to glass blocks and the substrate, shrinkage-compensated and with low water absorption. Once hardened, it has excellent breathability and water-repellent properties. Due to its particular grain size, VETROMIX can also be used for sealing the joints between glass block elements. VETROMIX is a perfectly white powder, but it can be colored with powdered oxides if colors similar to those of colored glass blocks are desired. The product does not contain asbestos fibers or other materials considered harmful to the health of the applicator.

Complies with European Standard EN 998-2 for general purpose masonry mortars (G), Class M 10.

APPLICATION AREAS

VETROMIX is used for interior and exterior bonding of glass block elements of any shape and size for the construction of perimeter walls, wall sections or translucent partitions. It is also suitable for the final sealing of glass block elements.

SUBSTRATE PREPARATION

Horizontal substrates must be flat, solid and compact, free of inconsistent parts, dust and greasy substances. Vertical substrates must also be perfectly plumb to ensure the verticality of the structure.

APPLICATION

To prepare the mix, pour 6-6.5 litres of clean water into a container and add one 25 kg bag of VETROMIX while mechanically stirring. Mix until a homogeneous, lump-free paste is obtained. Let the mix rest for about 10 minutes, stirring briefly again before use. Apply VETROMIX with a trowel, then position the glass blocks, checking alignment using the appropriate spacers. Remove any excess mortar before it hardens. To improve the mechanical strength of the structure, it is advisable to insert 6 mm diameter ribbed steel rods in every row of glass blocks. Once the structure is sufficiently stable, sealing can begin by removing the excess part of the spacers. On joints free of dust and hardened product residue, apply VETROMIX, pressing it with a smooth rubber float. When the product has sufficiently hardened, clean it by removing excess mortar with a damp sponge. Use a dry cloth to remove remaining dust only once it is fully hardened. If the constructed surface is large, provide expansion joints to be filled with OTTOSEAL S 100 acetoxycure silicone sealant.

COVERAGE

18 kg/m².

RECOMMENDATIONS

- ♦ VETROMIX is a cementitious product and, as such, all precautions for proper curing must be observed.
- ♦ Protect the walls from rain, washout, direct sunlight and frost until the product is completely hardened.
- ♦ Not suitable for the installation and sealing of glass block elements horizontally (skylights, walkways).
- ♦ Wash all equipment used for preparation and application with water before the product hardens.
- ♦ After setting, the mortar can only be removed mechanically.

PACKAGING

VETROMIX is supplied in 10 and 25 kg polyethylene-lined paper bags on 1500 kg pallets. Store the product in dry conditions and in the original, tightly closed packaging. Under these conditions, its stability is at least 12 months.

SAFETY INSTRUCTIONS

The product contains cement which, in contact with body sweat, produces an alkaline reaction that is irritating and sensitizing to the skin. Wear suitable clothing, gloves and protective goggles.

For more information on safe use of the product, consult the relevant Safety Data Sheet.

SPECIFICATION TEXT

Installation and subsequent sealing of glass block elements on vertical structures with a high-workability mineral adhesive mortar, shrinkage-compensated, with low water absorption, perfectly white with a high degree of finish, classified as G-M 10 according to EN 998-2, type VETROMIX by Colmef Srl.

TECHNICAL DATA

Complies with the Standard:	EN 998-2
Class:	G-M 10
Appearance:	powder
Color:	white
Bulk density (kg/m ³):	1670
Solid residue (%):	100
Mixing ratio:	6-6.5 litres of water per 25 kg of powder
pH value:	≥ 12
Maximum grain size (μ):	0-500
Applicable thickness (mm):	2-25
Initial setting time:	≤ 1 h
Permitted application temperature:	+5 °C to +35 °C

FINAL PERFORMANCE according to EN 998-2 Class G-M 10

	Requirements	Results	Test method
Compressive strength at 28 days (N/mm ²):	Class of mortar according to Table 1 of the standard	12.56 (Class M 10)	EN 1015-11
Flexural strength (N/mm ²):	-	4.52	EN 1015-11
Initial shear strength (N/mm ²):	tabulated value	0.15	EN 1052-3
Capillary water absorption (kg/m ² min ^{0.5}):	declared value	0.28	EN 1015-18
Water vapour permeability coefficient (μ):	tabulated value	15/35	EN 1015-19
Thermal conductivity (λ10,dry) (W/mK):	-	0.66	EN 1745
Chloride content (%):	< 0.1	< 0.01	EN 1015-17
Reaction to fire:	-	Class A1	EN 13501-1

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

The information and instructions above are based on our best experience. However, we cannot accept any liability for incorrect use of the products. We therefore recommend that anyone intending to use them assess whether they are suitable for the intended application and, in any case, carry out preliminary tests. Always refer to the latest updated version of the technical data sheet, available on www.colmef.com.

FOR FURTHER INFORMATION OR SPECIAL APPLICATIONS, CONTACT COLMEF TECHNICAL SUPPORT.

COLMEF SRL | Z.I. Ponte d'Assi | 06024 - Gubbio (PG) ITALY | Tel. +39 075923561 | info@colmef.com | www.colmef.com