

### MONNELI VETROMIX

*Grout for Sealing Glass Blocks*

#### Product Description

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A special powder mortar composed of hydraulic binders, fillers and synthetic resins. When mixed with water, it becomes easily workable and adheres perfectly to the support, as well as, between the glass block. After curing it becomes water proof and flexible grout. VETROMIX is also suitable for grouting tiles joints. VETROMIX does not contain asbestos fibers or other materials that can be harmful for the health of the applicator.

#### Uses

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VETROMIX is used for fixing and grouting of glass blocks within cement block or concrete openings. It is suitable for internal and external use.

#### Advantages

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- Can be used as adhesive, as well as, grout for glass block
- Flexible, non yellowing and waterproof grout
- Single part and easy to apply. It requires only addition of water
- High mechanical properties.
- Excellent adhesion between glass block, as well as, to substrate
- Impermeable with resistance to staining

#### Instruction for Use

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##### Surface Preparation

Horizontal supports must be leveled and vertical side should be perfectly in plumb in order to guarantee a perfect alignment of the glass blocks. The support must be solid, compact, and free from inconsistent parts, dust and grease substances.

##### Mixing

Pour into a container about 6 - 6.5 Liters of clean water then add a 25 Kg bag of VETROMIX. Mix till a homogeneous lump free consistency is obtained. Let the mixture rest for about 5 minutes, and remix it shortly before use.

##### Application

Apply VETROMIX with a trowel, then position the glass blocks in the opening. Use special moulder to verify the glass block alignment. Remove the excess of mortar before it hardens. For large openings it is strongly advisable to increase the mechanical strength and improve the structure stability of the glass block. It is recommended to fix, in every line of blocks or every other line, an iron rod of 6 mm dia. As soon as the structure is stable sufficiently, it is possible to begin the phase of grouting the blocks and then remove the moulders.

Apply VETROMIX into clean joints, free from dust and any form of hardened residues. Compress the product using a smooth rubber grout float. Let the product harden for about 10 minutes, after that clean the surface using a damp sponge. When the product is well hardened, clean the surface with a dry rag.

If the surface exceeds 15 - 16 m<sup>2</sup> area, a proposed expansion joints must be implemented. Concrete expansion joints should be sealed with elastic material as ELASTOSEAL PU.

##### Cleaning

Tools and equipment should be cleaned with water immediately after use.

## Recommendations

- VETROMIX is a cement based product and it must be cured as common norm of practice. If applied externally, it must be protected from rain, excess warm and direct sun-rays till it hardens completely
- For large area of glass block openings, 6 mm steel reinforcement rod or mesh reinforcement might be needed within the grout. Contact Colmef Technical Department or consult structural Engineer for the proper requirements

## Technical Data

Properties	Results
Appearance	Powder
Color	White
Density	1.9 kg/L
pH of mixture	12.8
Workable time at 25°C	60 minutes
Compressive strength after 28 days	20.0 N / mm <sup>2</sup>
Flexure strength after 28 days	8.0 N / mm <sup>2</sup>
Temperature of application	+5°C to +35°C
Joints thickness	from 2 to 25 mm
Noxiousity ECM 88/379	No

All values are subject to 5-10 % tolerance

## Consumption

10 to 12 Kg / m<sup>2</sup> for glass block of 150 x 150 x 80 mm and joint width of 20 mm

## Packaging

VETROMIX is supplied in 20 Kg bags.

## Storage

Keep the product in dry and covered place. In these conditions the product will have a shelf life of 9 months.

## Health & Safety

VETROMIX can be harmful to skin as it contains cement powders which may releases alkalis when mixed with water.

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary.

In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly.

If ingested, obtain medical attention immediately. Do not induce vomiting.

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