



MONOMIX

STAIN-RESISTANT, READY-TO-USE, MONO-COMPONENT, WATER-BASED, POLYURETHANE SEALANT FOR COMPACT AND FLEXIBLE JOINTS FEATURING DURABLE UNIFORM COLOURS.FREE FROM HAZARD CLASSIFICATIONS.



DESCRIPTION

MONOMIX is the innovative polyurethane resin-based mortar in aqueous dispersion for the waterproof grouting of joints in ceramic tiles and glass mosaics with 1 to 6 mm wide joints.

ADVANTAGES

The special formula of **MONOMIX** offers numerous advantages such as:

Ready to use

It does not require any preparation and prevents the release of dust into the environment as cement products do.

Reusable

Once the grouting task is completed, any left-over material can be reused even after a few months, avoiding unnecessary waste, if closed in the original package and stored at temperatures ranging from +5°C to +35°C.

Exempt from labelling

It does not contain solvents or irritating and corrosive products, **MONOMIX** does not require labelling as ordinary cement or epoxy products. The user can therefore have a particularly safe product during processing.

Easy to clean

The colour of the product is given by superficially coloured ceramized quartz inerts and therefore no colour pigments are released on the surface of the tiles or mosaics during the cleaning process making it easy and fast. This characteristic makes the product particularly suitable as a grout for joints between "timber effect" ceramic tiles, typically characterised by a rough surface.



Stable and uniform colours

The product does not contain cement therefore the possible formation of the efflorescence, typical in cement products, is avoided. The binding agent of **MONOMIX** consists of polyurethane resins in aqueous dispersion which guarantees a high stability against the light, avoiding yellowing or colour variations as a result of exposure to UV light or artificial light sources.



Waterproof

Special water-repellent additives integrated into the product greatly reduce surface absorption of the joints making them waterproof with drip effect.

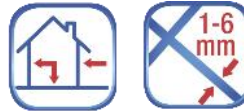


Stain-resistant

Thanks to its low surface absorption, **MONOMIX** is particularly resistant to staining from oil, wine, vinegar, etc. See stain resistance table. It also features good resistance to various aggressive chemical agents. See table of chemical resistances.

Elastic

It does not contain cement, the product is characterised by excellent elasticity once hardened that makes it suitable for tiling applications subject to vibrations and/or deformations.



FIELDS OF APPLICATION

MONOMIX can be used in the residential and public construction sector to grout joints with width from 1 to 6 mm for any type of ceramic tile including glass mosaics in indoor walls and floors and outdoor walls.

Being a single component product that hardens with the evaporation of the water content in the applied mix, it is particularly suitable as a grout for joints between large ceramic tiles, where installers apply the material along the perimeter of the tile only. Unlike two-component epoxy reactive products, which have an application time of less than 1 hour, **Monomix** allows operators more time for grouting operations, thus preventing wastage.

The list below shows examples of suitable application areas.

RESIDENTIAL

- Flooring and wall tiling, even heated, for bathrooms and kitchens.
- Flooring, even heated, in living rooms, bedrooms and entrance halls.
- Flooring in community areas such balconies and staircases.
- Outdoor walls in general.
- Tiling on particularly elastic or moveable supports such as metal sheet, wooden panels or lightweight panels.

PUBLIC

- Flooring, even heated, in offices, shops, places of worship, meeting rooms, bars and restaurants, schools, hotels, exhibition halls.
- Outdoor walls in general.

APPLICATION

Preliminary checks and preparation of joints

Verificare Make sure that the adhesive or mortar used for the bonding of tiles or mosaics is completely dry and hardened. The joints must be clean, free of dust and at least 2/3 of them deep enough to be filled. Any traces of adhesive or mortar dripped between the joints must be removed while they are still fresh. Remove any plastic spacers.

Spotlight and Gold finishes

Like Starlike® two-component epoxy mortar, you can also add Spotlight and Gold additives to **MONOMIX** to get unique and exclusive effects without affecting the particular ease of cleaning. These additives are available separately, in pre-dosed packs for the 1 and 2.5 kg **MONOMIX** packages. Gently pour the chosen additive into the mixture and manually mix it with a spatula or trowel to obtain a uniform mixture.

Product to grout and clean

Joint grouting

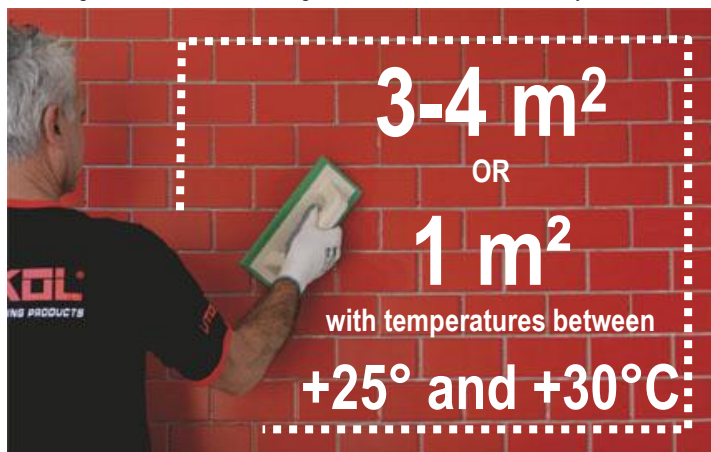
MONOMIX is a product ready for use and does not require any preparation. However, once the container is opened, it is recommended to mix it briefly and manually with a trowel or steel spatula.

Application of the product can be carried out at temperatures between +10°C and +30° C. Do not apply on outdoor walls if temperature drops below +10°C is forecasted to drop in the next 48 hours. Protect all surfaces from any water for 7 days.

MONOMIX is a product in aqueous dispersion and hardening occurs by water evaporation. As a result, drying and hardening process is influenced by temperature, by moisture, by the absorption of the tiles and by their thickness. Low temperatures or high environmental humidity lengthen hardening times.

Apply the mixture of **MONOMIX** in the joints with a rubber spatula by spreading diagonally against the direction of the joints, without leaving gaps or dips and removing excess material from the surface of the tiles or mosaics. The partial filling of the joints may compromise the structural integrity of the product; it is therefore recommended to compress the product adequately into the joints with a rubber spatula until they are completely filled. If you are working by yourself, it is recommended to apply the product covering areas not exceeding 3-4 m² and that can be cleaned within 15 minutes. If there are two people working, it is recommended that an operator applies the plaster into the joints and that the other cleans the area immediately afterwards.

With temperatures near +30°C, it is recommended to apply the product covering an area not exceeding 1 m² and clean immediately.



To facilitate application (especially in hot climates), you can lightly moisten the surface of the tiles with the supplied sponge squeezed before applying the product, avoiding stagnation on the surface of the tiles or in the joints that are still empty. This allows the product to be applied better, slowing the formation of film on the surface of the tiles.

Cleaning and finishing MONOMIX CLEANER GEL

Cleaning and finishing of joints is done with a well-squeezed supplied sponge (art. 125/G), by performing circular movements while being careful not to empty the joints and without leaving marks on the surface. The



least amount of water possible must be used in order to avoid damaging the product that is still fresh within the joints. Avoid the stagnation of water on the surface of the fresh grouting and prevent cleaning water from going in the empty joints. Change the cleaning water frequently (about every 10 m²). Avoid further cleaning when drying has started, as rubbing with a sponge during plaster cross-linking leads to the loss of surface resistance. Should transparent marks remain on the surface of the tiles or mosaics due to the film formation of the resin, it will be possible to intervene at least 24 hours after grouting with the neutral **MONOMIX CLEANER GEL**. Spread the pure product on the surface and after a few minutes, rub with white felt (art. 109/G), rinse with a moist sponge and dry with a clean cloth. It is recommended to apply **MONOMIX CLEANER GEL** on surfaces that are not too large (about 1-2 m²) so as not to let it come into contact with the grouting for more than 5 minutes. After cleaning, the product can be stepped on after 24 hours.

MAINTENANCE OF CERAMIC SURFACES GROUTED WITH MONOMIX

Routine cleaning of ceramic or mosaic surfaces grouted with Monomix can be carried out with common detergents available on the market and observing the instructions for use and the dilutions recommended by the manufacturers and listed on the packaging. Products containing ethyl alcohol may slightly weaken the surface of the grouting which regains its original strength after a few hours. In cases of doubt, perform a preliminary test on a small area.

WARNINGS

- The product is ready to use. Do not add water as the dilution of the resin leads to a weakening of the plaster when it has hardened.
- Do not add cement, alcohol or foreign substances.
- Before use, make sure the adhesive used to lay the ceramics or mosaics has completely dried.
- Briefly mix the preparation by hand with a trowel or spatula before use. Avoid mixing with a drill.
- Apply the product with a temperature range between +10° C and +30° C.
- Do not use in the event of high environmental humidity.
- Do not use for outdoor flooring, tanks, swimming pools, saunas and steam rooms, showers of sports and public facilities.
- Do not use in industrial environments or areas subject to intense traffic.
- Do not use on surfaces subject to capillary rising damp.
- When grouting natural stone or marble mosaics, a preliminary test must be performed to check the surface absorption of the polyurethane resin. In this case, a dark stain would form on the surface of the material, which would not be possible to remove.
- Based on the many types of ceramic tiles and mosaics available on the market today, it is recommended, in case of doubt, to perform a preventive grouting test in order to determine any incompatibility or cleaning difficulty.
- To clean, only use the sponge supplied that is inside the bucket. Using other sponges or felts or may compromise the surface compactness of the grout when it has hardened.
- When cleaning, always wring the sponge very well using the least amount of water possible, avoiding water stagnation on the surface of the grout that is still fresh.
- Do not cover the freshly grouted surface with sheets or other materials in order to prevent the formation of condensation, which may weaken the cross-linking of the resin. Wait at least 48-72 hours depending on the temperature before protecting the surface.
- In the event of any leftover material it is recommended to reseal the package, making sure that the separation plate is put inside it. This procedure will ensure better preservation of the product.
- Do not use the product for applications not listed on the technical sheet.



STAIN RESISTANCE TABLE

STAINING AGENT	CONTACT TIME: 15 MINUTES
Vinegar	Can be cleaned with water
Ketchup	
Red wine	
Olive oil	
Coffee	

APPLICATION DATA

Waiting time for grouting

Floor application

- with normal-setting adhesive: 24 hours
- quick drying adhesive: 4-6 hours
- with mortar: 7-10 days

Wall application

- with normal-setting adhesive: 6-8 hours
- quick drying adhesive: 4-6 hours
- with mortar: 2-3 days

Application temperatures allowed	From +10°C to +30°C
Walkability(T=+23°C)	24 hours
Time of commissioning	7 days
Width of the joints	From 1 to 6mm
Cleaning the equipment	Can be cleaned with water while still wet. Once hardened cleans only mechanically

IDENTIFICATION DATA

Appearance	Dense coloured mixture
Specific weight of the mixture	1.56 kg/l
pH	8
Custom classification	35069190
Storage time	24 months in unopened original packaging, at temperatures between +5°C and +35°C. Protect from freezing.

COLOURS

Bianco Assoluto C.470	Grigio Portland C.560	Grigio Fango C.280
Bianco Ghiaccio C.270	Ardesia C.480	Tortora C.490
Titanio C.310	Antracite C.240	Sabbia C.250
Grigio Seta C.320	Moka C.420	Travertino C.290
Silver C.220	Pietra d'Assisi C.300	Avorio C.520

PERFORMANCE

Application temperatures	From -15°C to +80°C
UV resistance	Excellent
Resistance to moisture	Good

TABLE OF THE CHEMICAL RESISTANCES

Group	Name	Conc. %	30'	24h	24 hours
Acids	Acetic acid	10	●	●	●
	Hydrochloric acid	10	●	●	●
	Phosphoric acid	10	●	●	●
	Lactic acid	10	●	●	●
	Oleic acid	pure	●	●	●
	Citric acid	10	●	●	●
Alkali	Ammonia	10	●	●	●
	Caustic soda	10	●	●	●
	Sodium hypochlorite	10	●	●	●
Oils and fuels	Olive oil	pure	●	●	●
	Lubricant oil	pure	●	●	●
	Gasoline	pure	●	●	●
	Diesel	pure	●	●	●
Solvents	Ethyl alcohol	pure	●	●	●
	Oxygenated water	pure	●	●	●
	Acetone	pure	●	●	●
	Ethylene glycol	pure	●	●	●

● Excellent resistance ● Good resistance ● Poor resistance

Product to grout and clean

CONSUMPTION TABLE (Kg/m²)

Tile size (mm)	JOINT WIDTH (mm)					
	2	3	4	5	6	
10x10x4	2.50					
15x15x4	1.70					
20x20x4	1.25					
50x50x4	0.50					
100x100x6	0.40	0.60	0.75	0.95	1.15	
100x100x10	0.65	0.95	1.25	1.60	1.90	
200x200x8	0.30	0.40	0.50	0.63	0.75	
120x240x12				1.20		
250x250x12				0.75		
250x250x20				1.30		
300x300x10	0.22	0.32	0.42	0.53	0.65	
300x600x4.5	0.10	0.12	0.15	0.20	0.25	
300x600x10	0.18	0.25	0.30	0.40	0.50	
330x330x10	0.20	0.30	0.40	0.50	0.60	
400x400x10	0.16	0.25	0.32	0.40	0.50	
450x450x12	0.17	0.25	0.33	0.41	0.50	
500x500x12	0.15	0.22	0.30	0.37	0.45	
600x600x3	0.03	0.05	0.06	0.08	0.10	
600x600x4.5	0.05	0.07	0.09	0.12	0.14	
600x600x12	0.12	0.19	0.25	0.31	0.37	
600x1200x3	0.02	0.03	0.05	0.06	0.07	
1000x3000x3	0.01	0.02	0.025	0.03	0.04	

PACKAGING

1 kg plastic bucket = Standard pallet 200 kg
2.5 kg plastic bucket = Standard pallet 437.5 kg

INFORMATION ON SAFETY

Refer to the product's safety sheets available upon request.

PRODUCT FOR PROFESSIONAL USE

Although the information in this technical chart is source of our best experience, it is merely indicative.

Each specific case must be subjected to preliminary tests by the user who assumes the responsibility for the final outcome of the task.

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HI-PERFORMANCE BUILDING PRODUCTS

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