



PACKAGING 17,5 + 5 kg

Product

POLIMIN GI-4 AQUA-BARRIER ELAST elastic two-component waterproofing mixture for interior and exterior use. The mixture is applied on the water side. It is produced in the form of a 2-component mixture:

- component 1 - a dry mix of cement binder, prepared fillers and selected modifying additives of the highest quality;
- component 2 - concentrated rubber latex emulsion.

Important! The material is not a finishing layer, it requires protection from mechanical influences and UV radiation (screed filling, plastering, tiling).

Product features:

- **reliable protection against water penetration** at a positive pressure of 20 m of H₂O for basements, foundations, pedestals, showers, tanks
- **waterproofing of deformable surfaces:** balconies, terraces, swimming pools
- **elasticity**, crack bridging of at least 1 mm
- **frost resistance**

Usage

Mixture for waterproofing provides protection from the impact of water for the following building structures: foundations, basements, balconies, swimming pools, terraces, showers, parapets, water tanks, etc.

Table 1

Specifications	
proportions for mixing (component number 1/component number 2)	17.5 kg / 5 l
mortar mixture curing period	3-5 minutes
mortar suitability time	120 minutes

POLIMIN GI-4 AQUA-BARRIER ELAST

Mixture for waterproofing layer

Two-component elastic mixture for the construction of a waterproofing layer for indoor and outdoor application

- withstands hydrostatic pressure of a water column of at least 20 m
- installation and repair of waterproofing layer on concrete, stone, and plastered substrates both indoors and outdoors
- highly elastic
- thickness of application: 2.5–3 mm



withstands hydrostatic pressure of at least 20 m of water column



installation and repair of waterproof layer on concrete, stone, and plastered substrates both indoors and outdoors



highly elastic



thickness of application: 2.5–3 mm

Table 1 (continued)

Specifications	
min./ max. thickness of waterproofing layer	2.5 / 3 mm
curing, min.:	
• foot traffic	1 days
• tile setting	5 days
• water filling	7 days
waterproofing capacity in 24 hours, at least	1,5 bar
substrate and ambient temperature during application	from +5°C to +30°C
packaging	Component 1: paper bags – 17.5 kg Component 2: canister – 5 l

The time indicated in the table is recommended for applying mixture at 20–22°C and 60% humidity.

Standards

EN 14891-compliant.

Declaration of Consumer Properties No.CPR 1/021.

Table 2

 	
water resistance at 1.5 bar 7 days	no penetration
crack bridging at 20°C	> 0.75 mm
initial adhesion strength	> 0.5 N/mm ²
adhesion strength after immersion in water	> 0.5 N/mm ²
adhesion strength after immersion in basal water	> 0.5 N/mm ²
adhesion strength after thermal impact	> 0.5 N/mm ²
adhesion strength after freezing-thawing	> 0.5 N/mm ²

Working surface preparation

The surface must be:

- **stable** – strong, sufficiently bearing, resistant to deformations, cured, and also cleared of layers that reduce adhesion. Bases covered with fungi, moss, etc., shall be treated with special solutions. Cement bases, which are waterproofed, should be cured for at least 28 days, concrete – at least 6 months;
- **free of adhesion-reducing layers** (lime, oil, grease, wax, residues of oil and emulsion paints);
- **cleaned from peelable particles** manually or by mechanical methods, hydro jet cleaning or high- pressure removal;
- **dedusted** with industrial vacuums or manually;
- **damp, but not wet (with no visible runs of water).**

Table 3

Detailed instructions for base preparation Depending on the type of waterproofing surface	
type of base	preparation method
new cement screeds, concrete structures, swimming pools	concrete structures must be cured for at least 6 months, cement screeds and plasters – at least 28 days.
existing cement screeds and plasters, concrete structures	expansion joints must be marked and decorated with special tapes; cracks in the existing coating - repaired; coatings that have peelable areas - cleaned and dedusted; oil paint on the surface of the plaster should be removed; the over-dried cement bases should be saturated with clean water. Bases with traces of biological corrosion - pre-treated with special antiseptic preparations
the existing facing with tiles made of ceramics, porcelain tiles, etc.	the existing facing must have a reliable grip with the base, otherwise it must be removed mechanically; it is mandatory to remove the surface of substances that reduce adhesion (fats, oils) by washing the surface with a 30% aqueous solution of caustic soda and then thoroughly rinsing off the residual caustic soda

Application

Before starting work on waterproofing the surface

Deformation, expansion joints should be pre-filled with special sealants in accordance with the manufacturer's recommendations, after which it is necessary to glue the seams with sealing tape fixed with Gi-4 or another suitable polymer composition.

The structural "wall-to-wall", "wall-to-floor" joints are made with a sealing tape fixed with Gi-4 or other suitable polymer composition.

In places where communication lines, water supply and drainage pipes meet the structure, special waterproofing inserts are laid or they are sealed with special sealants in accordance with the manufacturer's recommendations.

Further work on waterproofing is carried out depending on the recommendations of the manufacturer of sealing compounds but not earlier than in 24 hours.

Mortar mixture preparation

Before use, both components are kept for at least 1 day in a room at 15... 20 °C temperature. Component 2 is poured into a container, then component 1 is slowly poured into it and stirred thoroughly with a low-speed mixer until a homogeneous mass of necessary consistency is obtained. After 5 minutes of curing and immediately before use stirring is repeated. If the mixture's flowability is reduced within 2 hours after mixing, restoring it by stirring without adding water is allowed.

Application of material

During waterproofing and for the next 3...5 days the base temperature is maintained within the range of 10...30°C with 60-75% relative humidity. Increasing the temperature shortens the time of the mixture's usefulness.

The waterproofing mixture is laid in at least two layers.

The first layer of the mixture is applied with a brush (spatula) in one direction, and it should be about 1-2 mm thick, the second layer is applied "wet on wet" with a continuous thin layer and carefully levelled in a perpendicular direction to the first one.

The second layer of the material can be applied after the first one's hardening to a state that allows you to work without damaging the first layer during movement (up to 12 hours).

The mixture should be protected against drying out, draughts, direct sunlight, etc. during work and for 2-3 days after the end of work.

Care of newly laid material

During the work and the first 2-3 days, the treated surface should be protected from overly fast drying out, direct sunlight, draughts, rain, or accidental access of water.

In order to create favourable conditions for polymerization of the waterproofing layer for the first 2-3 days, it is necessary to maintain temperature of at least 15°C and 60-75% humidity.

Operation and finishing works

Pedestrian traffic is allowed not earlier than 24 hours, the laying of finishing coatings not earlier than 5 days.

Storage conditions

Store in tightly packed original packaging, in dry conditions (preferably on pallets). Keep dry. The product's shelf life for use in conditions that meet the specified requirements is 18 months from the date of production indicated on the packaging. **Do not freeze Component 2!**

Additional information

- Using an incorrect proportion of components, dilution with water, adding cement, etc. is unacceptable because it leads to a reduction in the features of the waterproofing layer.
- Tools must be washed with water immediately after use.
- Component 1 contains cement. It has an irritant effect on the respiratory tract and skin. It causes serious eye damage. It may cause allergy in case of skin exposure. Keep away from children. Do not inhale dust. Use protective clothing,

gloves and eye / face protection. In case of contact with skin (or hair), immediately remove contaminated clothing and wash skin under running water (shower). In case of skin irritation or rash, consult a doctor. In case of contact with eyes, rinse with water for several minutes. Remove contact lenses (if you wear them and they can be easily removed) and continue to rinse eyes with water. Act according to the recommendations of the safety card. The content of soluble chromium (VI) in the finished product mass is $\leq 0.0002\%$.

- Component 2 can cause serious damage to the eyes, and allergy if it comes in contact with the skin. Keep away from children. Use protective clothing, gloves and eye / face protection. In case of contact with the skin (or hair), immediately remove contaminated clothing and wash the skin under running water (shower). In case of skin irritation or rash, consult a doctor. In case of contact with the eyes, rinse with water for several minutes. Remove contact lenses (if you wear them and they can be easily removed) and continue to rinse the eyes with water.

Special Information

The reliability of this data is based on laboratory tests and practical experience, and is relevant for the period specified in the technical specification.

The quality of the material is provided by a proprietary quality system that meets the requirements of the international standard ISO 9001.

The application, performance of work using the material shall be carried out in accordance with current regulatory documentation on the territory of the country.

The manufacturer can not incur liability for damage caused by use of the material not in accordance with the issued specifications for use or when not used for its intended purpose. With the new edition's release, this document will cease to be in force.

The information contained in the technical card provides basic data relating to the application of the product and does not release from the obligation of performance of works in accordance with building codes and safety regulations. Since the issuance of this technical card, all previous ones have been cancelled. The current technical documentation of the product is available on drive. polimin.ua or polimin.ua in the relevant language section.

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