



**PACKAGING** 25 kg

## Product

**Polimin Gi-1AQUA BARRIER** is a one-component polymer-cement dry mortar for making a waterproofing layer on engineering structures.

The mixture is applied on the water side.

**Important!** The material is not a finishing layer, it requires protection from mechanical influence (screed filling, plastering, tiling).

The material has the following properties:

- **high substrate adhesion**
- **withstands water pressure of 5 m H<sub>2</sub>O**
- **vapour-permeable**

## Usage

The mixture is designed for waterproofing engineering structures and is water resistant: water storage tanks, hydraulic structures.

Table 1

Specifications	
water requirement per 25 kg bag, litres:	
- when applied with a spatula	5.0-5.5
- when applied with a brush	5.5-6.2
coverage area of 25 kg bag, m <sup>2</sup>	3-6
dry compound consumption per 1 mm of thickness, kg/m <sup>2</sup>	1.7-1.8
curing, min.:	
- foot traffic	1 days
- plaster work	2 days
- tile setting	5 days
thickness of application (at least 2 layers), mm	2.5-5
water resistance for 24 hours, after 7 days, at least	0.5 bar
mortar mix suitability time, min., at least	60

# POLIMIN GI-1 AQUA-BARRIER

## Mixture for waterproofing layer

**Single-component polymer-cement mixture for waterproofing layer**

- withstands pressure of 5 m H<sub>2</sub>O
- high substrate adhesion
- for waterproofing of strong rigid concrete and plastered bases
- outside and inside premises
- vapour-permeable
- thickness of layer is 2.5-5 mm



minimum resistance level:  
5 w.c. m



waterproofing of solid  
rigid concrete and



highly elastic



layer thickness: 2.5-5 mm

Table 1 (continued)

Specifications	
compressive strength, 28 days, N/mm <sup>2</sup> , at least	15
substrate temperature during work	from +5°C to +30°C
packaging	25 kg paper bags



Data indicated in the table is based on recommended temperature for mixture application at 20-22°C and 60% humidity.

## Standards

EN 14891-compliant.

Declaration of Consumer Properties No.CPR 1/023.

Table 2

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

## Working surface preparation

**The surface must be:**

**Stable**– strong, sufficiently bearing, resistant to deformations, cured, and also cleared from layers that reduce adhesion. Bases

covered with fungi and algae are treated with special solvents. Cement bases, which are waterproofed, should be cured for at least 28 days, concrete – at least 6 months;  
**free from adhesion-reducing layers** (lime, oil, grease, wax, residues of oil and emulsion paints);  
**cleaned from peelable particles** manually or by using 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 – for 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 which have peelable areas - cleaned and dedusted; oil paint on the surface of the plaster should be removed; over-dried cement bases should be saturated with clean water. Bases which have traces of biological corrosion - pre-treated with special antiseptic preparations

## Application

### Before starting work on surface waterproofing

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 the sealing tape fixed with a suitable polymer composition.

Structural "wall-to-wall" and "wall-to-floor" joints are made by laying the sealing tape fixed with a 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 made by the manufacturer of sealing compounds but not earlier than in 24 hours.

### Mortar mixture preparation

Before use, the material is kept for at least 1 day in a room at 15...20 °C temperature. The dry mixture is slowly poured into a container with the calculated amount of water depending on the desired consistency, and diligently stirred with the low speed mixer until a homogeneous mass of the necessary consistency without lumps is obtained. After 5 minutes of curing and immediately before use stirring is repeated. If the mixture's flowability is reduced within 1 hour after mixing, restoring it by stirring without adding water is permitted.

## Storage conditions

Store in tightly packed original packaging, in dry conditions (preferably on pallets). Keep dry. The period of suitability for

use in conditions meeting the specified requirements is 12 months from the date of production indicated on the packaging.

## Additional information

- Using an incorrect proportion of components, dilution with water, adding cement, etc. is unacceptable because it will lead to a reduction in the features of the waterproofing layer.
- Tools must be washed with water immediately after use.
- The dry mix contains cement. It has an irritant effect on the respiratory tract and skin. It causes serious eye damage. In case of skin exposure it can cause an allergy. 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 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. Act according to the recommendations on the safety card. The content of soluble chromium (VI) in the finished product mass is  $\leq 0.0002\%$ .

## Special Information

The reliability of this data is based on laboratory tests and practical experience and is valid on the date that is specified in the technical specifications.

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

Application, performance of work when using the product should be carried out in accordance with the current regulatory documentation, for example. The manufacturer cannot be held liable for damage caused by violation of the product application rules which are indicated in the technical specification issued or when it is used for the wrong purpose.

With the release of a new edition, this document loses its 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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