

Three-layer waterproofing membrane MEGATRON

Waterproofing membrane

Material Description:

The three-layer, elastic, waterproofing membrane is designed for waterproofing floors with ceramic tiles capable of cracking due to temperature and mechanical deformations.

The waterproofing membrane consists of one layer of polymer membrane and two layers of geotextile.

In general, waterproofing membranes are an essential element of building construction to protect buildings and structures from moisture and other liquids.

They provide reliable protection against various types of moisture, reduce the risk of damage to building structures, improve their operational properties, and extend their service life.

Advantages waterproofing:

- The three-layer structure of the membrane ensures high resistance to various temperature and mechanical deformations, allowing it to be used in different conditions and climatic zones.
- The polymer layer is the main element of the waterproofing membrane, providing reliable protection against water and other liquids.
- Two layers of geotextile on both sides of the polymer membrane provide additional strength and resistance to mechanical damage during installation and operation, as well as ensure increased adhesion to the substrate.
- The elastic properties of the membrane allow it to adapt to different shapes and sizes of structures, providing reliable protection against moisture and liquids in any conditions.
- The waterproofing membrane can be applied to the surface using mineral adhesive.

Application Areas:

- Balconies and terraces;
- Swimming pools;
- Flat roofs in operation;
- Heated floors in bathrooms;
- Sanitary and technical rooms;
- Industrial buildings;
- Cold rooms and warehouses.

Waterproofing Installation Recommendations:

Before installing the waterproofing membrane, it is necessary to prepare the base to ensure the best adhesion quality and prevent membrane damage in the future. For this, the base surface must be strong to ensure the membrane's resistance to any mechanical influences. It is also important for the surface to be clean to avoid uneven distribution of adhesive and any contaminants that could cause weak adhesion. Finally, the surface should be rough to ensure better adhesion between the adhesive and the base.

Cleaning the base before installing the waterproofing membrane can be done using manual equipment. Mechanized tools such as water jet units or vacuum cleaners can also be used. For manual cleaning, brushes with soft bristles or spatulas can be used to remove dirt and dust. If there are oil stains on the base surface, special solvents can be used to remove the contamination.

Water jet units help remove dirt and contaminants using a high-pressure water flow. Vacuum cleaners help remove dust and other small particles that may remain on the surface. Regardless of the cleaning method used, after cleaning, the surface should be rinsed and allowed to dry before installing the waterproofing membrane.

To ensure maximum efficiency of the waterproofing membrane, it is recommended to apply a high-quality acrylic primer to the surface before installation. The primer helps improve adhesion between the adhesive and the base. It is recommended to apply the primer evenly and ensure complete coverage of the base surface. The primer should be allowed to dry completely (usually from 4 to 24 hours depending on weather conditions and the type of primer) before starting the installation of the waterproofing membrane.

The waterproofing membrane should be installed according to the manufacturer's requirements. Typically, the membrane is glued to the base surface using a special mineral-based adhesive by overlapping. This means that the adhesive is applied to the surface of the bottom layer of geotextile, after which the top layer of the

membrane is applied to this surface in such a way that it overlaps the bottom layer by 100 mm. Thus, a continuous membrane with reliable sealed joints between the layers is formed.

During installation, it is necessary to follow the technology rules to avoid wrinkles, air bubbles, or disruption of the adhesive joint density. Various tools such as rollers or spatulas can be used for this purpose. After installing the membrane, it should be checked for damage and the tightness of the adhesive joint. If defects are found, they should be corrected before continuing the work.

Finally, the membrane should be protected from possible mechanical damage and direct sunlight, especially during work on the surface. Protective materials such as film or foam can be used for this purpose. Sharp objects or any materials that could damage the waterproofing should also be prevented from penetrating the membrane surface.

By following all these recommendations and adhering to the technology rules, maximum efficiency of the waterproofing membrane can be ensured, and the building can be protected from moisture penetration.

Storage:

The warranty storage period is 18 months at temperatures from -30 to +50°C in a dry place and in the original undamaged packaging without direct exposure to ultraviolet light.

Safety Measures:

During the installation of the waterproofing membrane, the following safety measures should be observed:

- Ensure safety at the workplace. Make sure the workplace is clean, empty, and free from hazardous materials. Install barriers and safety signs where necessary.
- Use appropriate eye and respiratory protection. During the installation of the waterproofing membrane, dust, smoke, and other substances may be emitted, which could pose a health risk. Use protective goggles and respirators.
- Do not work in hazardous conditions. Do not work in hazardous conditions, such as at

heights without adequate protection or in confined spaces without sufficient ventilation.

- Use safe tools and equipment. Make sure the tools and equipment you use are safe for work. Check them before use.
- When working with the waterproofing membrane, follow safety rules for working with liquids and chemicals.
- Ensure that the installation of the waterproofing membrane complies with all standards and regulations. Follow all safety requirements established by relevant organizations and manufacturers.
- Prefer the use of environmentally safe materials. Make sure the materials you use are environmentally safe and do not have a negative impact on the environment.

Technical Specifications

| Characteristics | Value |
|---------------------------|---|
| Appearance: | Three-layer polymer membrane |
| Width, mm | - 1000 |
| Thickness, mm | - 0,55 ± 0,05 |
| Material | PVC |
| Density, g/m ² | ≥140 |
| Relative elongation, % | 10-15 |
| Tensile strength, MPa | ≥8,8 |
| UV resistance, g | ≥2500 |
| Shore hardness, A | 67 |
| Operating temperature, °C | From -35 to +70 |
| Chemical resistance | - Resistant to continuous exposure to water, sewage - Resistant to short-term exposure to low concentration inorganic acids and alkalis and mineral oils |