
MEGATRON COATING

Cement-polymer waterproofing for concrete, brick, and stone surfaces

Material description:

"Megatron Coating" is a high-quality dry cement-polymer mixture specially developed for waterproofing various surfaces, including concrete, brick, stone, gypsum board, aerated concrete, foam blocks, and others.

This composition demonstrates impressive strength and resistance to water, weak acid solutions, alkalis, salts, and other aggressive environments.

Thanks to its unique properties, Megatron Coating creates a reliable barrier against moisture penetration, ensuring dependable surface waterproofing.

The polyamide fiber included in the coating provides exceptional strength and resistance to mechanical damage.

Advantages of Megatron Coating:

- **Reliable protection:** One of the main advantages of "Megatron Coating" is its high resistance to aggressive environments, exceptional tensile strength, and resistance to minor mechanical damage.

- **Strong adhesion to the substrate:** "Megatron Coating" is distinguished by exceptional adhesion to any mineral surfaces, making it an ideal choice for waterproofing under any conditions. Whether dealing with concrete, stone, brick, or other mineral materials.

- **Wide range of applications:** Megatron Coating is successfully used for waterproofing concrete, stone, brick, and other surfaces. It excellently creates a reliable barrier against moisture, even in the most humid conditions.

- **Ease of use:** "Megatron Coating" is easily applied to the surface using various tools such as trowels, brushes. This allows for uniform and reliable protection in hard-to-reach areas. The waterproofing mixture is applied from the side of water pressure.

- **Longevity:** "Megatron Coating" provides reliable surface protection for a long time, even under conditions of high humidity and intense mechanical loads. This is particularly important for objects subjected to constant exposure to aggressive environmental factors.

- **Chemical and corrosion resistance:** "Megatron Coating" is characterized by high resistance to the effects of chemical substances such as acids, alkalis, salts, and other aggressive solutions. This makes it a reliable solution for waterproofing in premises where there may be a high concentration of harmful substances.

- **Cost-effectiveness:** The waterproofing mixture has the property of rapid hardening, allowing for faster progression to the next stage of work. This reduces the time required for waterproofing works and ensures their efficiency.

- **Eco-friendliness:** Megatron Coating is made from high-quality natural components that do not contain harmful chemicals. It does not emit toxic or harmful vapors during use and drying. This makes it safe for human health and does not harm the environment, permitted for use in reservoirs with drinking water.

Scope of application:

- Waterproofing of prefabricated concrete structures (foundation blocks, floor panels, balcony slabs, etc.);

- Horizontal waterproofing;

- Waterproofing of monolithic concrete structures (foundation slabs, cement-based screeds, columns, staircases, etc.);

- Waterproofing of industrial facilities (foundation slabs, columns, wall panels, etc.);

- Waterproofing of agricultural facilities (silos, bunkers, gas holders, underground and aboveground galleries, etc.);

- Waterproofing of water management structures (pipelines, reservoirs, wells, boreholes, etc.);

- Waterproofing of mining facilities;

- Waterproofing of treatment facilities (septic tanks, settling tanks, etc.).

Application Recommendations:

Megatron Coating should be applied according to the manufacturer's technological regulations.

Before applying Megatron Coating, it is necessary to prepare the substrate.

Cleaning the substrate before applying waterproofing can be done using manual equipment. Mechanized tools such as water jetting units can also be used.

For manual cleaning, metal brushes or spatulas can be used to remove dirt and dust. If there are oil stains on the substrate, special solvents can be used to remove the dirt.

After completing the preparatory surface treatment, carefully check whether all cracks, joints, and openings are filled with Megatron Seam or Megatron Repair R-1 repair compounds. It is important that these fillers are applied evenly and well smoothed to avoid voids and defects in the waterproofing layer.

Next, before applying Megatron Coating, it is recommended to ensure that the surface is lightly moistened. This will promote better material adhesion and improve its adhesion to the surface.

During the mixing of Megatron Coating, it is important to accurately follow the proportions of water and dry components.

First, make sure that the dry Megatron Coating mixture is placed in a clean and dry container or bucket suitable for mixing. It is important that the container is large enough to allow thorough mixing of the components.

Add water gradually, following the ratio of 1 part water to 2 parts dry mixture. This means that for every one part of water, two parts of dry component should be added by volume. Start mixing using a mechanical mixer or spatula if mixing manually.

After adding water, thoroughly mix the material to ensure a homogeneous consistency. Then wait for 1-2 minutes before mixing the mixture again. If necessary, a small amount of water can be added, considering the application method and the desired consistency.

Carefully monitor the consistency of the mixture. It should be uniform, without lumps or undissolved dry particles.

After completing the mixing, leave the mixture for 1-2 minutes, allowing it to rest slightly. Before applying, mix the mixture thoroughly again to ensure a homogeneous consistency.

The first layer of coating is applied using a spatula or brush. It is important to evenly

distribute the material and press it well onto the surface. The thickness of the first layer should not exceed 1 mm to avoid cracking.

After applying the first layer, allow it time to dry. The duration of this process depends on the humidity and temperature conditions of the environment.

After the first layer has completely dried, the second layer of coating can be applied. This is done in the same way as the first layer. It is recommended to work quickly as the Coating may start to harden.

Freshly applied coating should be protected from direct sunlight, rain, frost, and rapid drying. This will help prevent cracking and ensure proper drying of the material.

The application of the material should be carried out at a temperature not lower than +5°C.

Attention! All cracks, joints, seams, penetrations, and pressure leaks must be insulated using Megatron Suture and Megatron Plug.

Material consumption:

With a coating thickness of 2-3 mm, the consumption is 1.5-2.0 kg/m²

Storage:

The guaranteed shelf life is 12 months at a temperature from -20 to +60°C in the original factory packaging.

Safety measures:

When applying penetrating waterproofing, the following safety measures must be observed:

- Ensure safety at the workplace. Make sure the workplace is clean, empty, and free from hazardous materials. Install fencing and safety signs where necessary.
- Use appropriate eye and respiratory protection. Dust and other substances may be emitted during the application of waterproofing, which can pose health risks. Use protective goggles and respirators.
- Use safe tools and equipment. Make sure that the tools and equipment you use are safe for work. Check them before use.

- When working with waterproofing, follow safety rules for working with liquids and chemicals.
- Follow all safety requirements established by relevant organizations and manufacturers.
- Make sure that the materials you use are environmentally safe and do not have a negative impact on the environment.

Technical Specifications:

Characteristics	Value
Appearance	Powdery dark-gray powder, free from impurities
Moisture content, % by weight	0,5÷0,7
Setting time, min	
Start	15÷30
End	30-50
Bulk density in uncompressed state, g/cm ³	1,45
Adhesion to concrete, MPa	
Concrete	2÷3
Brick	2÷3
Waterproofing grade, W	14
Increase in frost resistance, number of cycles	At least 100÷150
Concrete resistance to acid exposure	High
Concrete resistance to alkali exposure	High
Concrete resistance to petroleum products	High
Ultraviolet resistance	Not affected
Application temperature, °C	+5
Operating temperature, °C	-60 ÷ +130
Storage	In a dry room, in sealed packaging