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## MEGATRON HYDROSEALING

### Bentonite hydrosealing for sealing technological joints in reinforced concrete structures

#### Material description:

Megatron Bentonite Hydroseal is a composite material designed for effective sealing of horizontal and vertical structural joints in concrete structures. This material is also ideal for compacting places where utilities are introduced during construction or in existing structures.

Megatron Bentonite Hydroseal is a highly effective composite material, consisting of 60% high-quality bentonite and 40% rubber. This unique composition harmoniously combines the properties of bentonite, providing a high level of sealing, and the flexibility of rubber, allowing the material to adapt to various structural requirements.

The properties of bentonite allow the material to adapt to different conditions and pressures, providing reliable protection against moisture and other aggressive environments.

The use of Megatron bentonite hydrosealing allows avoiding the negative impact of water and ensures the stability of structures against external factors.

#### Advantages of application:

- Purpose: Hydrosealing provides a high level of sealing in joints, seams, and other potential points of moisture penetration. This is especially important for underground and foundational structures.

- Moisture penetration protection: Hydrosealing helps keep moisture and other liquids away from building materials. This is particularly relevant for ensuring the longevity and stability of concrete structures, as moisture can cause reinforcement corrosion and other issues.

- Wide range of applications: hydrosealing is used to create reliable and effective waterproofing on various types of objects to protect concrete structures in any conditions. For example, this additive can be applied in the construction of underground shelters, foundation waterproofing, pools, liquid reservoirs, or any other structures where water may pose a problem.

- Ease of use: Hydrosealing is easily and conveniently installed on concrete surfaces during construction.

- Unlimited lifespan: Hydrosealing provides long-term protection without losing its properties over time. This makes it an effective and cost-effective solution for waterproofing construction structures, as it does not require constant renewal or replacement, which can require significant effort and expense.

- Reduction of work time: The use of hydrosealing allows for efficient and faster waterproofing of concrete structures, saving time and resources on the construction site, allowing waterproofing work to be completed faster than with traditional methods.

- Environmental friendliness: Hydrosealing is produced and used in accordance with environmental standards and regulations, and has no negative impact on the environment. Only clean ecological components are included in the additive composition. The material is environmentally friendly and radioactively safe. Approved for use in domestic water supply.

#### Application areas:

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

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

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

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

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

- Waterproofing of mining objects;

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

**Application Recommendations:**

The hydroseal is placed on the concrete base as tightly as possible, without gaps, and secured from possible displacement using mounting tape or profiled mesh and dowels with a spacing of 150-200 mm. The strands are joined together with an overlap of at least 50 mm to obtain a continuous line. All sleeves through which utilities are planned to be introduced through the enclosing elements of the structures are tightly wrapped with hydroseal. Installation of the hydroseal is carried out immediately before installing the formwork. The distance from the edge of the structure should be at least 50 mm. It is permissible to lay the hydroseal on wet concrete.

- Make sure the materials you use are environmentally safe and do not have a negative impact on the environment.

**Technical characteristics:**

Characteristic	Value
Appearance	Black cord
Chemical composition, %	
Bentonite	60
Rubber polymer	40
Density (density) g/cm <sup>3</sup>	1,3
Volume expansion %	
7 days	200
14 days	300
Waterproof grade, W	5
Operating temperature °C	-60 ÷ +130
Storage	In a dry room, in sealed packaging

**Storage:**

The guaranteed storage period is 12 months at a temperature of -20 to +60°C in intact factory packaging.

**Safety measures:**

When using Hydroseal, the following safety measures must be observed:

- Ensure safety in the workplace. Make sure the workplace is clean, empty, and free of hazardous materials. Install fencing and safety signs where necessary.
- Use safe tools and equipment. Make sure the tools and equipment you use are safe to work with. Check them before use.
- Follow all safety requirements established by relevant organizations and manufacturers.