HammerStop

Cement-based, rapid-setting shock water plugging mortar

Description

A single-component, very fast setting water plugging mortar containing special cement and mineral fillers, developed for the instant stopping of active water leaks and seepages. It reacts with water and sets within seconds, forming a high-strength, waterproof structure.

Advantages

- Very fast setting (within seconds).
- Single-component, ready to use.
- Easy to apply.
- High early and final strength.
- High adhesion strength and mechanical resistance.
- Does not shrink or crack.
- Waterproofing materials can be applied on top.
- Resistant to pressurized water.
- Does not cause corrosion on reinforcement.
- Suitable for indoor and outdoor use.

Areas of Use

- Instant stopping of active water seepages and pressurized water leaks,
- Drying of surfaces before waterproofing applications,
- Immediate sealing of cracks, voids and cold joints in concrete and masonry structures,
- Basements, retaining walls and foundation joints,
- Water tanks, treatment plants, swimming and ornamental pools,
- Elevator shafts, tunnels, galleries and underground structures,
- Engineering structures such as metro, tunnels, dams and highways,
- Surfaces exposed to water from negative and positive sides,
- Manholes and other infrastructure applications..

Surface Preparation

- The application surface must be sound, clean and load-bearing.
- Paint, plaster, lime, concrete or adhesive residues must be removed by scraping.
- The substrate must be free from dust and oil.
- The surface should be pre-wetted before application (no free water should remain).
- If water leakage comes from a narrow and pressurized crack or hole, the hole should be enlarged by 2–3 cm to reduce pressure.
- For large holes, the surrounding area should be filled first and application should continue after reducing the hole size.

Application

Dry Powder Application:

- The dry powder material is compressed by hand or shaped into a plug.
- The material is pressed directly and firmly onto the leaking point.
- Upon contact with water, the material reacts and sets very rapidly.
- It is held in place under pressure for approximately 30–60 seconds.
- If necessary, the process is repeated and the surface is later repaired with repair mortar.
- Then it is smoothed with a trowel and scratched with a wire brush, followed by permanent waterproofing using Hammerfast waterproofing materials.

Mortar Application::

- HammerStop is taken in an appropriate amount depending on the size of the leakage and quickly mixed with water in a clean container until a paste consistency is obtained.
- The mixed mortar is shaped into a ball by hand (using gloves).
- When the prepared mortar starts to heat up, it is pressed onto the leaking area for at least 30–60 seconds until the leakage stops.
- Then it is smoothed with a trowel and scratched with a wire brush, followed by permanent waterproofing using Hammerfast waterproofing materials.

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Technical Properties

Color and Appearance	Grey fine powder
Chemical Structure	Special cement and mineral fillers
Setting Time	30–60 seconds
Final Setting Time	2–3 minutes
Mixing Ratio	~25% water (approx. 250 ml for 1 kg)
Compressive Strength (24 hours)	≥ 10 MPa
Flexural Strength (24 hours)	≥ 25 MPa
Application Temperature	+5 °C / +30 °C
HS Code (GTIP)	3824.50.90.00.00

Note: Values are at 23±2 °C and 50±5% relative humidity.

Consumption

Varies depending on the size of the void and crack.
Average consumption: ~1,5 – 2,0 kg/L (for 1 liter of void).

Important Notes

- Dry application method is preferred especially for pressurized and intensive water ingress.
- Due to very fast setting, small quantities should be prepared.
- Gloves must be used during application.
- Do not add any additives not specified in the application instructions.
- Do not apply on weak or loose substrates; roughening is required on very smooth and glossy surfaces.
- Apply between +5 °C and +30 °C.

Storage and Shelf Life

12 months from the date of production when stored in original unopened packaging, in dry and moisture-free conditions, protected from direct sunlight, between +10 °C and +35 °C. Packaging should be tightly closed when not in use. Maximum stacking is 2 pallets..

Safety Precautions

- Keep out of reach of children.
- Do not eat or swallow.
- Keep away from food products.
- Do not inhale directly, avoid contact with the body.
- May cause allergic reactions.
- In case of eye contact, rinse thoroughly with water and consult a doctor.
- Use gloves, goggles and protective clothing during application.
- Wash hands thoroughly with water after application.
- Read the Material Safety Data Sheet for detailed safety information.

Packaging

Available in 5 kg and 15 kg packages.

Cleaning of Tools

All tools should be cleaned with water immediately after application.

Quality Certificates

- CE
- ISO 9001
- ISO 14001

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