

YAPIFINE HYDRA[®] SHOCK

Fast Setting Water Plugging Mortar



Product Definition

Polymer reinforced single component waterproofing material that rapidly sets and is used in the insulation and repair of active water leaks.

Areas of Use

- Walls and floors
- Basements, foundations, shear walls and elevator shafts
- Water tanks and pools
- Insulation of water leaks in concrete pipes

Advantages

- Easy to apply
- Rapid strength gain
- Doesn't shrink
- High compressive strength
- By expanding in the opposite direction of the water flow rapidly sets and stops the water flow.
- Is chlorine-free, doesn't corrode the iron reinforcement.

Technical Specifications

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| Appearance | Grey powder |
| Pot Life | max. 1 minute |
| Final Drying | 2 minutes |
| Application Temperature | Between +5°C and +30°C |
| Service Temperature | -20°C / +80°C |

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|---------------------------------|------------------------|
| Adhesion Strength to Underlayer | ≥ 1 N/mm ² |
| Flexural Strength | ≥ 4 N/mm ² |
| Compressive Strength | ≥ 25 N/mm ² |
| Reaction to Fire | A1 |

* Hereby technical values and product application instructions are obtained in the wake of tests conducted in environment of +23±2°C temperature with relative humidity of %50±5. Higher temperatures will shorten the time span, while lower temperatures will extend it.

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|  Packaging | 3 kg plastic drum |
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|  Consumption | 1.7-2 kg of powder for 1 L of fresh mortar |
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Surface Preparation

The surface should be cleaned of all residual materials such as dust, oil, dirt, paint, curing materials, bitumen and other foreign substances.

Places where there are cracks, holes and active water leaks should be further opened all the way down to solid ground.

Mixture Preparation

An appropriate amount of the powder product, enough to allow the coverage of the area where the water leak is located, is poured into the container filled with enough fresh water in proportion to the needed amount to prepare the mixture. Since the product sets very quickly, an appropriate amount of the product is mixed and stirred in a fast manner inside a small bucket. (1 kg of powder / 270 mL of water)

If the amount of the leaking water is too much then the powder product is held against the water flow where the leak is located and is held against the flow until it hardens.

The mixture is stirred by hand or with a spatula until a homogeneous mixture is achieved. The stirring process shouldn't be longer than 30 seconds. Rubber gloves should be used throughout this process.

Application Information

Since the prepared mortar begins setting with the increase in temperature, it is swiftly given shape with hand and then with a single move it is held strongly against the area where the leak is coming from and is pressed against the leak by hand for at least 30 seconds. Since the product sets quickly the process should be completed within 1 minute.

The application should start from the outer areas of the leak and move towards the center.

Leaks coming from deep holes can be insulated with more than one layers of application.

Application Conditions

Additional water should not be added to already frozen mortar or mortar that has finished its setting process.

The application area should be kept damp in order to keep it cool after the application procedure and it should be allowed to cure.

Since the product is not elastic, it should not be applied on dynamic cracks.

Shelf Life

The shelf life of the product is 6 months when stored in its original packaging in a dry (maximum relative humidity 60 %), cool (ambient temperature between +10°C and +25°C) and moisture-free environment.

Safety Precautions

The operator should be wearing proper work attire, goggles, mask and protective gloves appropriate to work and worker safety regulations.

In case of contact with the eyes or accidental ingestion of the product, seek immediate medical attention.

Rinse with plenty of water in case of contact with the skin.

Since it's cement based, do not breathe.

For further information on the safe handling of this product please read the Safety Data Sheet (SDS).