

TECHNICAL DATA SHEET

HIDROZAT

Quick setting cement mortar



PRODUCT DESCRIPTION

Cement-based quick-setting mortar. It sets in 4 minutes and can be fully loaded in 15 minutes.

Field of use

For setting display windows, machines, parapets, balustrades, and balcony and garden fences and doors, central heating, for sanitary and electrical installations, for quick repairing of damage on concrete prefabricates, for stopping the water leaking.

Product properties

- Stops active water leaking
- Extremely quick-setting - approx. 4 minutes
- Chloride-free
- Also sets under water
- High early strengths

PRODUCT DATA

Basic information

Appearance	Grey powder
Packing	5 kg in carton / 30 kg (6x5 kg) in carton boxes / 1080 kg (36x30 kg) on palette 25 kg in bag (plasticated) / 1200 kg (48 x 25 kg) on palette
Storage and expiration date	12 months from date of production if stored properly in undamaged original sealed packaging in dry and cool conditions. Date of production is printed on packaging.

Technical data

Type of product	Cementitious polymer modified mortar	
Bulk density of powder	1,41 kg/l	EN 1015-6:1999/A1:2007
Weight of fresh mortar	2,0 kg/l	EN 1015-6:1999/A1:2007
Weight of hardened mortar	1,8 kg/l	EN 12190:2000
Grain size	D _{max} : 1 mm	EN 12192-1:2002
pH	12,5	
Flexural strength after 28 days	5 MPa	EN 1015-11:2001/A1:2007
Compressive strength after 28 days	30 MPa	EN 12190:2000
Setting time	beginning: 2 minutes	EN 196-3:2005
	finish: 4 minutes	EN 196-3:2005
Bond strength on concrete	1,5 MPa	EN 1542:2000

INSTRUCTIONS FOR USE

Consumption

2 kg for filling of 1 litre volume

Base

Substrate should be clean and free of all oil, grease, wax, latex compounds, curing compounds, dust and all foreign matter.

Base preparation

All cracks should have a minimum depth of 2 centimetre. Make a square-shaped cut, preferably dovetail to the surface to which the material is to be applied; avoid the "V" shape. Clean the surface until it is free of all loose materials; wet the surface if water is not present at the time of application.

Mix ratio	app. 0,2 l of water per 1 kg of dry mixture, app. 1,1 l of water per 5 kg of dry mixture, app. 5,5 l of water per 25 kg of dry mixture
Mix time	Mix only the amounts of HIDROZAT that can be applied in two minutes; if it is a water leak, mix only the amount of material that can be used with your hand. Use a plastic or rubber container, fill with HIDROZAT as needed, and add water slowly until it has the consistency of cement mortar. One kilogram of HIDROZAT requires approx. 0,2 l of water.
Installation	FOR PLUGGING ACTIVE LEAKS Hold the material in the hand or trowel until slight warmth is felt or setting occurs, then press HIDROZAT firmly into the opening. Exert full pressure, without moving the hand or trowel. Do not remove the hand or trowel too quickly. After stopping the active water, immediately remove the excess material and continue until the crack is finished. Under great pressure, in tunnels and basements do not try to plug up the crack at once. Fill the crack step by step. Leave the crack opened at the lowest level, to lower the pressure. When HIDROZAT fully sets, close the crack completely. EXPANSION JOINTS HIDROZAT a rigid product. Once it has set is not the ideal material for this type of work since expansion joints are subject to constant movement. Nevertheless, it is used to stop the water in expansion joints; later, when it is dry, the expansion joint is made with a flexible material. ANCHORING BOLTS OR METAL POSTS IN CONCRETE OR MASONRY Drill a hole deep enough to secure the bolt or post properly and large enough to get at least 10 mm on all sides of it. Then fill the hole with HIDROZAT and tamp it down to fill the hole entirely. Immediately centre the bolt or post over the hole and force it into the fresh HIDROZAT. Tamp the HIDROZAT firmly around the bolt or post and keep it moist for at least 15 minutes.
Cleaning of tool	Clean tools immediately after the use before adhesive hardens. Hardened material on tools can only be removed mechanically.
Usage time	approx. 2 minutes

LIMITATIONS

Base temperature

+5°C min./ +25°C max.

Air temperature

+5°C min./ +25°C max.

Material temperature

+5°C min./ +25°C max.

Warnings

- Ideal temperatures for HIDROZAT are in +15°C - +20°C range. HIDROZAT takes approx. three to five minutes to set, depends on temperature of substrate, relative air humidity and amount quantity of added water, at the temperatures mentioned above.
- When temperatures are high and HIDROZAT sets very quickly, cold water must be used to delay the setting time, allowing you to apply the material. In extreme cases, keep the product in the shade and add ice to the mixing water.
- At a low temperatures, use warm or hot water to prepare HIDROZAT mixes. At extremely low temperatures, i.e., near 0 °C, heat the material and use hot water.
- Times specified in the technical sheet were measured at the temperature of +23°C and relative air humidity of 50%. With higher temperatures prescribed time can be shortened while prolonged at lower temperatures.
- Protect freshly installed material from freezing, rain and other weather conditions. The material should not be used at (surface, air, material) temperatures lower than +5°C.

Recommendation: Remains of the unhardened/unset material have to be removed in accordance with the legislation.

Data source: All technical data in this technical sheet was obtained by laboratory research. Actual data may differ due to different working conditions.

Local restrictions: Due to specific local regulations the installed product can differ from country to country. For exact instructions for use a country specific technical sheet should be obtained.

SAFETY DATA

Irritating. Contains cement. Irritating to eyes, skin and respiratory tract. Contact with skin may cause hypersensitivity. In case of eye contact wash thoroughly with water at once and consult a doctor. In case of skin contact flood with a lot of water. Keep away from the reach of children. More data on storage, handling and use of mixture can be found in the safety sheet which contains safety, toxicological and ecological data. Warnings on the original packaging should also be considered.

LEGAL BASE

Information and recommendations related to use of KEMA products are presented in good faith and believed to be correct. The later is based on our knowledge and experience with the products. Information is supplied upon the condition that products are stored and used according to the recommendations and the persons receiving the same will make their own determination as to its suitability for their purposes prior to use. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to Information or the product to which information refers. In no event will KEMA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the product to which Information refers. Nothing contained herein is to be construed as a recommendation to the use any product, process, equipment or formulation in conflict with any patent, and KEMA makes no representation or warranty, expressed or implied that the use thereof will not infringe any patent. All orders fall under current sales and supply conditions. The user should always check the latest technical sheet available upon demand.