KREVO Plug Rapid

Ultra-rapid-setting water-stopping mortar | Single-component | Active leak plugging

PRODUCT DESCRIPTION

KREVO Plug Rapid is an ultra-fast-setting, single-component cementitious mortar for stopping active water leaks and sealing local openings in concrete, masonry and stone. A dry, grey powder based on chloride-free rapid-setting hydraulic cements and silica sand, it can be applied as a compacted dry powder or mixed with water for immediate placement.

ADVANTAGES

- Rapid initial set for emergency leak-stopping and local sealing works.
- Suitable for dry-powder application or hand-mixed placement at active leaks.
- Chloride-free cement-based composition with durable, water-resistant finish.
- No noticeable solvent odour or fumes during normal use.
- Single-component material requiring only clean water for the wet method.

TYPICAL USES

Active leaks at construction joints • Form-tie holes • Water-bearing cracks • Wall kickers • Honeycombed concrete • Manholes • Service connections • Water tanks and masonry structures.

PRODUCT INFORMATION

PARAMETER	SPECIFICATION
Material type	Single-component, ultra-rapid-setting cementitious water-plugging mortar
Composition	Rapid-setting chloride-free hydraulic cements and silica sands
Appearance / colour	Dry grey powder
Application method	Dry application or wet hand-mixed mortar
Typical wet mixing proportion	3-4 parts powder to 1 part clean water, by volume
Packaging	25 kg bags / Bucket
Storage conditions	Dry, shaded conditions below +25 °C
Shelf life	6 months when correctly stored in unopened packaging

TECHNICAL PERFORMANCE SPECIFICATION | RAPID WATER PLUG

PROPERTY / TEST	SPECIFIED VALUE
Initial setting time | Vicat	60-120 seconds at +25 °C
Compressive strength | ASTM C109	28 MPa at 28 days
Water-to-powder ratio	Approximately 0.20 (for strength-test specimens)
Volatile organic content (VOC)	< 10 g/L

Setting and strength are influenced by storage age, temperature, mixing-water content, placement and curing conditions. Test results relate to controlled laboratory conditions; verify material conformity for each supply batch.

Application & System Data

KREVO Plug Rapid | Surface preparation, mixing, placement and setting control

APPLICATION PROPERTIES

PARAMETER	REQUIREMENT	APPLICATION DETAIL	CONTROL
Initial set	60-120 sec at +25 °C	Prepare and place immediately	Mix in small batches
Wet mix ratio	3-4 parts powder : 1 part water	Mix to firm cohesive mortar	Adjust water carefully
Temperature	Do not apply below +5 °C	Pre-cool material in hot weather	Protect from extreme heat

Warm mixing water accelerates setting; cool water delays setting. Do not mix more material than can be placed and held firmly before the initial set. Water content and temperature affect the usable working time.

TYPICAL SYSTEM BUILD-UP

STAGE	MATERIAL / METHOD
1 | Substrate	Expose sound concrete, masonry or stone; remove weak material
2 | Leak opening	Rout or chase cracks to a suitable U-shaped profile
3 | Surface condition	Clean free of contaminants; pre-dampen dry areas
4 | Plug application	Press dry powder or prepared wet mortar firmly into leak
5 | Finish	Hold until set, then strike off flush with surrounding surface

SUBSTRATE PREPARATION

Remove deteriorated concrete, laitance, dirt, oil, loose particles and any other contamination. Widen and rout the defect or crack to a U-shaped profile that permits firm compaction of the plug. Confirm the base is sound and dampen dry surfaces before applying a wet-mixed plug.

DRY AND WET APPLICATION METHODS

For a small leak with moderate flow, press the dry powder directly against the water entry and rub/compact until leakage stops. For wet placement, mix only a small quantity and compress the mortar immediately into the opened crack or hole with a gloved hand or suitable pointing trowel.

APPLICATION METHOD	RECOMMENDED PROCEDURE
Dry powder	Use on small leaks where water flow is not excessive; press firmly until sealed
Wet mortar	Add 3-4 volumes of powder to 1 volume of water; mix and place immediately
Finishing	Hold the plug in position until it sets, then strike off flush

The selected method must match the leak rate and opening size. Very high-flow defects may require separate engineered containment, staged plugging or injection methods before permanent repair.

INSTALLATION READINESS

Organise cleaning tools, small mixing vessels, water, gloves and finishing tools before opening the package. Treat one opening at a time, and have personnel positioned to compact and hold the plug immediately after mixing.

Installation & Product Support

KREVO Plug Rapid | Mixing, leak stopping, curing, limitations and technical contacts

MIXING PROCEDURE

- Prepare a small amount that can be placed and held before the fast initial set.
- Use clean water and a nominal 3-4:1 powder-to-water ratio by volume.
- Mix by hand using a trowel or suitable small paddle until a firm, uniform plug is formed.
- Place immediately; do not add further water once the material starts stiffening.

PLACEMENT, FINISHING & CURING

- Firmly press the mixed mortar into the routed crack or hole, working against active water pressure.
- Hold pressure using a gloved hand or pointing trowel until the mortar has set.
- Strike off flush. Under normal conditions, special curing is generally unnecessary.
- In critical work or at temperatures above +30 °C, use an approved compatible curing procedure.

LIMITATIONS & SERVICE NOTES

- Do not apply when the substrate or air temperature is below +5 °C.
- At ambient temperatures above +35 °C, pre-condition product in a cool area and use chilled water.
- Remove all weak, loose or contaminated substrate materials before placing the plug.
- Do not rely on a local water plug as a substitute for engineering treatment of moving structural cracks.
- Keep unused powder dry and sealed; dispose of hardened waste and packaging responsibly.

HEALTH, SAFETY & ENVIRONMENT

For industrial and professional use. Review the current Safety Data Sheet before handling. Cementitious powder may irritate skin, eyes and the respiratory tract. Use protective gloves, goggles, workwear and dust protection as assessed for the task. Avoid prolonged skin contact and airborne dust; wash exposed skin after use. Do not discharge slurry or unused product into drains or surface water.

QUALITY & PRODUCT INFORMATION

Actual setting and compressive strength depend on production conformity, moisture exposure during storage, water content, temperature, mixing and workmanship. Use material from sound unopened packaging and verify current batch documentation for projects requiring specified test performance. Follow an approved repair procedure for any structural or high-pressure leakage condition.

KREVO | GLOBAL CONTACTS

ENGLAND	UNITED STATES	CHINA
10 Shipley Avenue, Fenham Newcastle upon Tyne England NE4 9RA +44 7436 650806 info@krevo.uk krevo.uk	9209 S. Aeva Avenue Evergreen Park, IL 60805 +1 (773) 996-0846 info@krevo.us krevo.us	Office 235, 4th Floor No. 5 Inner China +86 139 5536 3625 krevo.cn