

IZOMAX® C10 Rapid

Cement Based Fast-Setting Waterplug Mortar

About the Product

IZOMAX® C10 Rapid is a single-component waterplug mortar containing special cement, mineral fillers and special chemical additives. When mixed with water it sets within seconds and instantly stops pressurised and active water leakages. It expands slightly at the point of application, completely filling the void and providing permanent watertightness.

Areas of Application

- Instant stopping of active and pressurised water leakages
- Foundation walls, basements, lift pits and water tanks
- Tunnels, galleries, culverts and retaining walls
- Joint, corner and detail preparation prior to waterproofing
- Watertight sealing of pipe, cable and service penetration openings
- Filling of tie-rod holes
- Repair of static cracks in concrete
- Rapid fixing of anchors and installation elements

Advantages

- Stops active and pressurised water leakages within seconds
- Expands at the point of application to provide complete watertightness
- Single-component; easily prepared with water only
- Very rapid setting (within minutes)
- Requires no formwork or special equipment; can be applied by hand
- Provides high adhesion and strength
- Can be covered in a short time (plaster, ceramic tiles, waterproofing layer)
- Does not damage steel reinforcement
- Can also be applied at low temperatures

Technical Specifications

General Information	
Material composition	Special cement, mineral fillers and special chemical additives
Appearance	Grey powder
Density	~1.35 kg/lt
Max. particle size	≤ 1 mm
Application Data	
Application temperature	-10°C / +35°C
Mixing ratio	0.24–0.28 lt water / 1 kg powder
Working time	~60–90 seconds
Final setting time	~2–3 minutes

Application thickness	10–40 mm
Ready for service	~24 hours
Consumption	Depends on the application
Safety Information	
Reaction to fire class (EN 13501-1)	A1
Hazardous substances	Refer to SDS

The stated technical values are obtained at +23°C ambient temperature and 50% relative humidity conditions. High temperatures shorten the time, low temperatures extend it.

Application Instructions

Surface Preparation

The application surface must be sound, clean, dust-free and load-bearing. The surface must be free from oil, grease, paint, rust, paraffin and similar contaminants that may adversely affect adhesion. Smooth surfaces should be roughened mechanically. Leakage points and cracks should be opened to a minimum width and depth of 2 cm; the cross-section of the opened channel should be prepared in a dovetail form, widening inwards, so that the mortar remains in place against water pressure. The edges of the repair areas should be at right angles and reinforcing steel must be cleaned of rust. Loose particles and mortar residues must be completely removed before application.

Mixing

IZOMAX® C10 Rapid is placed into a clean container and, immediately before application, the amount of water specified in the technical table is added. The material is then rapidly mixed by hand until a putty-like consistency is obtained. The mixing time should not exceed 30 seconds. As the product sets within a very short period of time, only the quantity that can be applied in one operation should be prepared. Water must not be added to a mixture that has started to set, and the mixture must not be re-mixed.

Application

The prepared putty-like material is formed into a ball by hand using protective gloves and pressed into the void where the leakage occurs. Pressure is applied by holding the material in place for approximately 60 seconds until it sets. If leakage continues from different points, the same procedure is repeated separately for each point. In voids with large cross-sections, the application should proceed in stages, starting from the deepest point of the void. For normal repair applications, the material is applied with a trowel and the surface is levelled.

Once the leakage has been completely stopped, the surface should be covered with IZOMAX® series waterproofing products to ensure the integrity of the waterproofing system.

Cleaning of Tools

All equipment used during application must be cleaned with water before it dries. Once hardened, the material can only be removed mechanically.

Storage Conditions and Shelf Life

Store in the original, unopened packaging in a cool, dry place. Under proper storage conditions, the product has a shelf life of 6 months from the date of manufacture.

Safety Precautions

During application, suitable work clothing, protective gloves, goggles, and a mask should be worn in accordance with occupational health and safety requirements. As the product is applied by hand, the use of waterproof protective gloves is mandatory. Due to the irritant effects of the uncured material, the components must not come into contact with skin or eyes; in case of contact, rinse immediately with plenty of water and soap, and seek medical attention immediately in case of ingestion. Food products must not be kept in the areas where the material is applied. Store out of reach of children. Refer to the Safety Data Sheet for further information.

Liability

Our company is responsible only for the quality of the product. Any use of the product beyond the scope of written technical recommendations, including incorrect application or use under unsuitable conditions, is the sole responsibility of the user. For more detailed technical information, please refer to the product catalogue or contact our authorized representatives.

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