

Chelfix Grout 4000

High-performance, Flowable Joint Mortar



Product Description

Chelfix Grout 4000 is a high-performance, non-shrink, flowable jointing mortar with a rapid-setting formula. It is ideal for use with porcelain, ceramic, stone, and concrete paving, as well as stone and clay block paving. Designed for external applications, it is suitable for driveways, pedestrian areas, and commercial projects. Its granular finish provides a durable and professional appearance, while its BS 7533-compliant formulation ensures strength, longevity, and early trafficking capability.

Areas of Application

- Filling joints of cobblestone pavements and veneer materials.
- Filling small pits and voids in narrow chambers.
- Jointing city furniture and prefabricated elements.
- Securing parquet, granite, and cubic stones by filling the spaces between them.

Advantages

- Ready to use – simply mix with water.
- Mixes quickly on site.
- Minimal shrinkage allows for use in various applications.
- Excellent adhesion ensures monolithic bonding with existing concrete.
- High resistance to oils and certain chemicals.
- High compressive and abrasion resistance.
- Excellent durability against freeze-thaw cycles.

Application Instructions

Surface Quality: All surfaces must be clean, sound, and free from any substances that could impair adhesion, such as dust, oil, dirt, rust, mold oil, detergent, or debris. Ensure that the surface of the paving stones is level and that joints are prepared to the desired width and depth.

Surface Preparation: Absorbent surfaces must be pre-wetted, ensuring no standing water remains. It is recommended to protect decorative or absorbent stone surfaces using Chelfix Latex or Chelfix Glaze prior to application.

Mixing: Add 5.0–6.0 liters of clean water at ambient temperature into a clean mixing container free from contaminants. Gradually pour one 25 kg bag of Chelfix Grout 4000 powder into the water while mixing at low speed until a homogeneous, lump-free mixture is obtained. Mix for at least 5 minutes, then allow the mixture to rest for 3 minutes. Remix for an additional 2 minutes before application. Once the chemical reaction has started, do not add additional water to the mixture.

Technical Data

Property Value	
Colour	Grey
Application Temperature	+5°C to +40°C
Mixing Ratio	5–6 L water / 25 kg powder
Workability Time	Minimum 30 minutes
Mortar Density	2.07 ± 0.1 kg/L (at 25°C)
Ready for Service	After 24 hours
Application Thickness	Minimum 3 mm / Maximum 18 mm
Flexural Strength	> 5.0 MPa (28 days)
Compressive Strength	> 40 MPa (28 days) (TS EN 196-1)

Technical data are approximate values obtained under laboratory conditions at +20°C and 50% relative humidity and represent performance after 28 days of curing.

Application Notes/ Restrictions

- For outdoor applications, protect the area from rain and frost for the first 3 hours after application.
- Setting times depend on ambient and substrate temperatures:
 - Reaction accelerates in warm conditions.
 - Reaction slows in cold conditions.
- Use warm mixing water in cold weather and cool water in hot weather.
- Wear appropriate protective clothing, including gloves, safety glasses, and a mask, in accordance with occupational safety regulations.
- Protect fresh mortar from direct sunlight, high temperatures (above +35°C), rain, and frost until fully cured.
- Clean surfaces thoroughly with water and detergent before the product has hardened.
- Clean tools and equipment immediately after use with water. Once hardened, the product can only be removed mechanically.
- Slowly pour the prepared mortar into the joints. Alternatively, pour and draw it across the surface with a rubber squeegee. The mortar's flowable consistency ensures uniform filling of all sides of the joint. Proper application minimizes the risk of joint damage and surface staining on cobblestones, borders, or paving blocks.

Standards

Chelfix Grout 4000 complies with TS EN 196-1 requirements for compressive strength.

Packaging

Supplied in 25 kg kraft bags.
Shelf Life: 12 months from the date of manufacture when stored in unopened, original packaging under dry conditions.

Consumption

Consumption depends on joint width and depth.
Product Density: 2.07 g/cm³.

Health and Safety

Chelfix Grout 4000 is a cement-based product and may cause irritation upon contact with skin or eyes.

- Use only in well-ventilated areas.
- Wear suitable protective gloves, goggles, and a respirator.
- In case of skin contact, wash thoroughly with soap and water.
- If eye contact occurs, rinse immediately with plenty of lukewarm water and seek medical attention.
- If swallowed, seek medical advice immediately and show the product label.