



DESCRIPTION

It is a flexible and high-performance cement-based mortar with low water absorption and abrasion. It is used in horizontal and vertical applications for interior and exterior areas. It is used for filling joint gaps between 1–6 mm of coating materials such as large-size natural stone, granite, marble, and ceramics. It can be used in wet areas and on surfaces with underfloor heating systems. It is suitable for use under medium loads and in areas exposed to pedestrian traffic. Thanks to its flexible structure, it is resistant to surface movements and stresses caused by temperature differences between heat and cold. It is resistant to freeze–thaw effects. It does not produce dust and is resistant to abrasion. During or after application it does not crack. It is easy to prepare and apply, has a long working time, and is available in 25 different colors.

PRODUCT FEATURES	AREAS OF USE
Easy and fast application Excellent workability Excellent flexibility Can be used in drinking water tanks Excellent crack resistance Excellent resistance to abrasion and wear Excellent frost resistance Excellent shrinkage resistance Long working time Resistant to rapid drying 25 different color options	It is suitable for use on the following properly prepared surfaces: Filling joint gaps 1–6 mm in natural stone, ceramic, tiles, glazed ceramic, granite, marble, pressed bricks, glass mosaics, and similar materials. Ready to use! Follow the application instructions when applying for the product. For all other applications please consult us

IMPORTANT NOTICE

Related Standard	EN 13888
Product Class	CG2WA
Document Number	007446-TSE-12/01

PACKAGING DETAILS

- Kraft bag 20 kg
- One pallet (105×105 cm) 80 bags / 1600 kg

CLEANING INSTRUCTIONS

- Small spills must be cleaned immediately with water without allowing the mortar to harden, and all application tools (smoothing gauge, steel trowel, leveling foot, hand mixer) must be cleaned with water.
- More serious spills must be contained and removed with inert absorbent material.
- Contaminated and unusable contents must be disposed of according to local and regional regulations.

TECHNICAL INFORMATION

Property	Value
Fire Class	A1, non-combustible
Water-Cement Ratio	30 – 33 %
Working Time	60 minutes
Opening Time for Pedestrian Traffic	24 hours
Color	White or colored fine powder
Flexural Strength	$\geq 2.5 \text{ N/mm}^2$
Compressive Strength	$\geq 15.0 \text{ N/mm}^2$
Shrinkage	$\leq 3 \text{ mm/m}$
Flexural Strength after Freeze-Thaw	$\geq 2.5 \text{ N/mm}^2$
Compressive Strength after Freeze-Thaw	$\geq 15.0 \text{ N/mm}^2$
Water Absorption 30 minutes	$\leq 2 \text{ g}$
Water Absorption 240 minutes	$\leq 5 \text{ g}$

- Results represent 28 days.

SURFACE PREPARATION

All surfaces to which the product will be applied must be clean, dry, sound, and free from dirt, grease, oils, wax, detergent residues, and other surface contaminants that may negatively affect adhesion performance. Loose coatings such as lime crust, chalky, cracked, or peeling layers on the application surface must be removed by manual scraping, brushing with sandpaper, pressure washing, blasting or similar methods. The application surface must be dust-free by vacuuming or sweeping. Remaining dust on the surface will reduce adhesion. Before application, ensure that the surfaces to be applied are flat and even. The joint gaps must be empty up to two-thirds of the tile thickness. During tile laying, the adhesive or mortar overflowing into the joints must be cleaned while still fresh. In applications on highly absorbent tiles, the joints must be moistened with clean water in cases such as high temperatures or windy weather conditions. Ensure that the tile adhesive has hardened before applying the joint filler

PRODUCT APPLICATION

Before and during the application of KAR FUGA SİL, work clothes must be worn according to occupational health rules and appropriate goggles and masks must be used. 20 kg KAR FUGA SİL is gradually added to 6.00 – 6.60 liters of clean water. It is mixed using a trowel or low-speed mixer until a homogeneous mixture without lumps is obtained. After the mixed mortar rests for 5 minutes, it is mixed again for 1–2 minutes and becomes ready for application. The mixing water should be at normal ambient temperature ($+23\pm 3^{\circ}\text{C}$). The prepared mixture must be used within 60 minutes. The prepared mortar must be spread on the surface and filled using a rubber trowel with diagonal movements between joints, and excess material must be scraped and removed from the surface. When the joint filler loses its water and becomes dull (usually 10–20 minutes), the surface must be cleaned with a damp sponge using circular movements. This period may be shorter for coating materials exposed to sunlight and with high absorption. It may also shorten in unsuitable environmental conditions such as direct sun or wind. If wiping is done too early or with a very wet sponge, color fluctuations and joint gaps problems may occur. The sponge must be cleaned frequently. After ensuring that the joint filler is sufficiently dry and will not flow out of the joint gap, remaining residues on the surface must be removed using a dry cloth.

APPLICATION NOTES

Foreign materials such as lime, cement or gypsum must not be added to KAR FUGA SİL. Application must be carried out between $+5^{\circ}\text{C}$ and $+35^{\circ}\text{C}$. KAR FUGA SİL must not be applied on frozen or thawing surfaces or surfaces exposed to frost within 24 hours. It must not be applied under direct sunlight, strong wind, or on hot surfaces. Surfaces must be primed before application so that stain-sensitive and absorbent materials such as metal coatings, clinker, polished granite, and ceramics are not affected by grout residues. If mortar residues remain on the surface due to improper cleaning, they can be removed using cement removers after 10 days, following the application instructions. When KAR FUGA SİL is applied in very hot, dry, or windy conditions, it is recommended to spray water on it after a few days to improve final performance. Powder mortar must be mixed only with water and in specified ratios. It cannot be applied on continuously wet surfaces

PRODUCT LIMITATIONS

The product does not have acid resistance. It must not be used in areas exposed to excessive heat.

Do not add more water than recommended. Low temperatures slow setting while high temperatures accelerate it, and working time varies depending on temperature. The product is not subject to ADR analysis.

TEMPERATURE LIMITS

- Service Temperature -40°C to +80°C
- Application Temperature +5°C to +35°C

CONSUMPTION – SHELF LIFE – STORAGE

- Must be stored in its original packaging in a dry environment between +5°C and +35°C.
- Shelf life is 12 months in unopened packaging, in a dry, cool, and closed place.
- When not in use, the package must be tightly closed. It is recommended to consume within one week after opening the bag.
- It must be stored with a maximum stacking of 10 layers.

CONSUMPTION

Tile Size	Joint Width 2 mm	Joint Width 3 mm	Joint Width 4 mm	Joint Width 6 mm
10×10 cm	400–550 g/m ²	600–800 g/m ²	800–1100 g/m ²	1200–1600 g/m ²
20×20 cm	200–300 g/m ²	300–400 g/m ²	400–550 g/m ²	600–800 g/m ²
30×30 cm	150–200 g/m ²	200–300 g/m ²	300–350 g/m ²	400–550 g/m ²
60×60 cm	100 g/m ²	100 g/m ²	200–300 g/m ²	200–300 g/m ²

SAFETY & PRECAUTIONS

Avoid prolonged skin contact and inhalation of dust, vapors or spray. Causes eye irritation. Use with adequate ventilation. Ensure fresh air entry during application and drying. If eye watering, headache or dizziness occurs, or if vapor levels exceed limits, use a CE approved respirator. Do not touch eyes, skin or clothing. Wear chemical safety goggles or face protection. Wash thoroughly after handling and before eating or smoking. Close the container after each use.

FIRST AID

- In case of skin contact, wash with warm water and soap.
- In case of eye contact, rinse with plenty of water for 15 minutes and seek immediate medical attention.

- If breathing becomes difficult, move to fresh air and seek medical attention if symptoms continue.
- If swallowed, do not induce vomiting and seek medical attention immediately

WARRANTY & DISCLAIMER

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