



DESCRIPTION

It is a cement-based grout mortar, polymer reinforced, single component, self-expanding, ready to use and self-flowing. Thanks to its special formulation, it provides excellent adhesion to surfaces and does not shrink. It can be used in: Machine foundations – equipment bases – support plates and base plates – railway bearings and bases – prefabricated structural columns – fixing and strengthening concrete – and filling existing cracks, cavities, pits and voids. It is characterized by: Self-leveling. Does not crack. Non-corrosive. Non-toxic. Adjustable consistency. Resistant to shocks and vibrations. Does not produce dust. Provides a smooth and non-porous final surface on the top layer. Easy to apply. It can be opened to light pedestrian traffic within 18 hours after application; after 24 hours it becomes ready for service. Its surface can be handled after hardening.

PRODUCT FEATURES	AREAS OF USE
Excellent adhesion Excellent distribution Not affected by ambient humidity Full drying within 24 hours Excellent crack resistance Excellent shrinkage resistance Excellent abrasion resistance $\geq 60 \text{ N/mm}^2$ compressive strength Easy and fast application Can be applied in layers Smooth and non-porous finishing surface Applicable thickness: 10 – 40 mm	Suitable for use on properly prepared surfaces such as: On metal surfaces As mortar in concrete floors Support plates Industrial floors Machine foundations Railway bases Prefabricated building columns Concrete fixing and strengthening

IMPORTANT NOTICE

Related Standard	EN 13813
Product Class	C60 – F7
Document Number	007446-TSE-07/03

Product System	CT Type
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TECHNICAL INFORMATION

Property	Value
Reaction to Fire	A1 (non-combustible)
Color	Grey
DMAX	2.0 mm
Water / Cement Ratio	16 – 19 %
Working Time	30 minutes
Opening Time for Pedestrian Traffic	18 hours
Flexural Strength	$\geq 7.0 \text{ N/mm}^2$
Compressive Strength	$\geq 60.0 \text{ N/mm}^2$
Bond Strength	$\geq 2.0 \text{ N/mm}^2$
Density	$2.15 - 2.35 \text{ kg/dm}^3$
Application Thickness	10 – 40 mm
Water Absorption	$\leq 0.5 \text{ kg/m}^2 \cdot \text{h}^{0.5}$

- Results after 28 days at $+23 \pm 2^\circ\text{C}$ and $50 \pm 5\%$ relative humidity.

SURFACE PREPARATION

All application surfaces must be clean, dry, sound and free from dirt, grease, oil, wax, mold and other surface contaminants that may prevent the performance of the material. Loose coatings such as lime scale, chalky layers, cracked or peeling parts must be removed from the application surface by manual scraping, wire sanding, pressure washing or cleaning with power tools such as sandblasting. The application surface must be dust free by vacuuming or sweeping. Dust remaining on the surface will reduce adhesion. Care must be taken to ensure that the application surface is solid and sound. Excess or accumulated water on the surface must be removed before application. To ensure saturated surface dry conditions, concrete surfaces must be moistened with clean water 2–6 hours before application. Surfaces must be clean and free from grease, oil, rust or scaling. All molds used in the application must have sufficient strength. If molds are used, mold oil and sealing must be applied to prevent leakage. Insulation must be applied at the bottom and around mold

joints. Leak resistance can be checked with preliminary water testing. A suitable pouring funnel must be made on one side of the mold to ensure a continuous grout head of 150–200 mm during pouring

PRODUCT APPLICATION

For each 25 kg bag of Kar Grout 60 S, add 4.00 – 4.70 liters of clean water. It is preferable to use single or double arm mixers (driven or fixed) suitable for mixing. In a clean mixing container, add half of the powder to the required amount of water and mix. Mixing must be carried out with a mechanical mixer at low speed (max 500 rpm) until a homogeneous consistency is achieved. Then the remaining powder mortar must be added and mixed until a lump-free mixture is obtained. Do not add more water than the specified amount. Immediately after mixing, the prepared mixture must be poured into the application area. It must be ensured that trapped air bubbles are released. Otherwise, dense air will prevent full contact with the surface. During filling under base plates, sufficient pressure must be applied from the pouring point to ensure grout flowability. When necessary, flow may be assisted by steel strap or chain. For large volume works, grout pumps are recommended. All equipment used must be washed with water after application before drying

APPLICATION NOTES

Work clothes must be worn according to occupational health rules and appropriate glasses and masks must be used. Do not apply on frozen or thawing surfaces or surfaces exposed to frost within 24 hours. Do not apply under direct sunlight, strong winds or on hot surfaces. To prevent air flow in the application environment, the application area and ceiling must be covered and doors and windows must be kept closed. Only openings that allow healthy air circulation should remain. Ambient temperature during application must be between +5°C and +35°C. Expansion joints must be respected if present. A suitable profile must be used for the thickness of the top layer to be applied. Continuous operating temperature in underfloor heating systems must not exceed 55°C. Leveling requirements must be determined before application. It is normal and expected that the material will set faster at very high temperatures. Powder mortar must be mixed only with water in specified ratios. No foreign materials should be added. It cannot be applied on wet or continuously damp surfaces. It cannot be applied on wooden or weak surfaces. Not suitable for use on wooden floors. Do not use for repairing weak surfaces. Do not use a vibrator during application. Pour or pump from one direction only. For best results, it is recommended to condition the material between +15°C and +25°C. For best results, it is recommended to apply 10 – 40 mm thickness in a single layer. If it is intended to apply in a thicker single layer, clean washed aggregate should be added as follows:

Clean Aggregate Size	Maximum Application Thickness
5 – 10 mm	up to 100 mm
5 – 15 mm	up to 150 mm

- The amount of aggregate must not exceed half of the grout quantity, because adding aggregate may reduce strength and flowability by 20 – 40 %.

CONSUMPTION – SHELF LIFE – STORAGE

- Consumption: For 1 mm application thickness, approximately 1.9 – 2.1 kg/m² powder is used.
- Shelf life: Must be stored in its original packaging in a dry environment between +5°C and +35°C. The shelf life is at least 12 months in unopened packaging in a dry, cool and closed place. When not in use, the bag must be tightly closed.
- Expired products or hardened material must not be used

COMPRESSIVE STRENGTH

Age	Compressive Strength
1 Day	20 – 40 N/mm ²
28 Days	60 – 90 N/mm ²

WARRANTY & DISCLAIMER

The data is based on common scientific and practical knowledge. The company is responsible only for the quality of the product and assumes no responsibility for:

Misuse

Use outside written recommendations

Direct or indirect damage resulting from transportation, storage or application

