

TECHNO KRAFT SELF LEVELLING

DESCRIPTION

Cement based, ready to use, high strength, non-dusting and self-levelling screed.



TS EN 13813-Screed Materials and Floor Screeds-Features and Requirements Fine aggregate CT-C25-F3 class.

CT: cement based

F3: Flexural strength >
3N/mm²C25: Compressive
strength > 25N/mm²

USAGE PLACES

- Indoors and in dry environments with little movement
- In shopping centres, hospitals, shops, offices, hotels
- It is used to remove defects on the surface before the application of ceramic, natural stone, wood, parquet, PVC coatings.

POINTS TO PAY ATTENTION TO

- Not applicable on wood, OSB, PVC, bitumen, metal floors. (Since the mortar is cement based, it does not stick).
- Avoid application under strong wind. Application must be made when the surface temperature is between +5 °C and +25 °C. In open areas or areas exposed to the sun excessively, ground temperatures rise rapidly and this increases the water absorbency of the surface. Since the surface will rapidly absorb the water in the mortar, the mortar dries rapidly and cannot adhere well to the surface and breaks away from the surface.
- It is not applied on floors where there will be high movement (mezzanine floors, stair steps) and very heavy traffic (aircraft hangars, factory floors, industrial floors, heavy duty workshops, etc.).
- It is not recommended to be applied on previously applied liquid impermeable membrane or surfaces with an impermeable system. Industrial screed materials should be preferred on such surfaces.
- It is not a topcoat material. It should not be left open after application.
- Not suitable for slopes greater than 1%.
- Do not give more water to** the material than necessary. Otherwise, the surface will sweat and colour fluctuation will occur.
- The application should be done by people who have previous knowledge about the application.
- Application thickness should be maximum 10 mm for a single coat. For 10-30 mm applications, sand is added and a coat can be applied.
- It is recommended to use protective gloves during application. For more detailed protective measures, please refer to the material safety data sheet of the product.

ADVANTAGES

- One component, easy to prepare and apply.
- Spreads and levelling by itself.
- Cement, epoxy and polyurethane based adhesives can be applied on it.
- It provides ease of application by adding only water at the construction site.
- Can be pumped.
- It can be used for levelling floors between 1-10 mm. (It can be applied with the addition of sand between 10-30 mm).

VARLIK MINERAL GEOTHERMAL ENERGY MINING CONSTRUCTION TRADING CO.

CENTRE: Beştepe Mah.No:1/113 Yenimahalle/Ankara
ANTALYA FACTORY: Çıplaklı Mah. 22171 Cd. No:14 Döşemaltı/Antalya
E-MAIL info@kraftbau.com.tr
TEL: 444 6 190
Kraftbau.com.tr

TECHNICAL DATA SHEET

SURFACE PREPARATION

Concrete Surface

The concrete surface to be applied must be clean, smooth and free from paint, rust, oil, wax, plaster, asphalt, latex and paraffin residues that may prevent the adhesion of the mortar. If the application is to be made on new concrete, the concrete must be sufficiently settled and have gained its strength (compressive strength of at least 25 N/mm², tensile strength of at least 1.5 N/mm²). Remains of curing materials applied after concrete pouring must be cleaned by mechanical methods before screed application. Paraffin and wax based materials are generally preferred for concrete curing.

Since these materials are oil based, they prevent the mortar to be applied from adhering to the surface. In hot weather applications (**if the surface temperature is above +25 °C**), the surface should be moistened 1-2 days in advance for the appropriate temperature. This will prevent the mortar from losing its water fast. It should be ensured that there is no water accumulation on the surface before application. In order to reduce the bubbles on the screed surface, **TECHNO KRAFT Primer** is applied as a single coat without diluting. Do not start floor levelling before the primer has dried (wait at least 24 hours).

Absorbent Surface (porous surface)

On highly absorbent surfaces, the surface must be cleaned from dirt, rust and oil before application. Before application, **TECHNO KRAFT Primer** is diluted 1/1 and applied on the surface. The second coat is applied after the first coat dries without diluting. Do not start application before the primer dries.

Non-porous Surface

It is not recommended to apply on polished concrete (including surface hardener applied), ceramic, tile, epoxy coated floors and waterproofed floors. Since these surfaces are non-porous and have a protective layer on them, they prevent the mortar from adhering to the surface and the mortar cannot gain sufficient strength.

USAGE METHOD

1 bag (25 kg) **TECHNO KRAFT Self Leveling** is mixed with 7,5-8 kg water in a clean container with a 400-600 rpm hand mixer for at least 5 minutes until it thickens. After mixing, the material should be rested and **mixed again and** poured onto the surface to be levelled (maximum 2 bags should be mixed for a healthy application). It is spread to the desired thickness with a toothed trowel or trowel. In order to prevent air bubbles in the screed poured on the surface, use a spiked roller (using two spiked rollers gives better results. The application is made by pulling the spiked rolls perpendicular to each other) should be used and final correction should be made with a trowel if necessary. Coating (ceramic, wood, PVC, etc.) should be applied **at least 3 days** after the screed application. After the screed material is applied to the floor, it should be protected from water contact. In screed applications, **TECHNO KRAFT Adherence Enhancer Acrylic Primer** liquid additive material can be used in the mortar, especially to increase **the surface hardness**. (see **TECHNO KRAFT Adherence Enhancer Acrylic Primer**) Since **TECHNO KRAFT Adherence Enhancer Acrylic Primer** is a polymer additive product, it shortens the working time of the mortar. For the application thickness between 10 mm-30 mm in a single layer, 0-4 mm sand can be added into the mortar as 30% by weight (7.5 kg sand in 25 kg powder). The added sand should be clean and dry. The screed should never be left open. After the screed material is applied to the floor, it must be protected from water contact. Wait **at least 3 days** to apply coating on it. At the end of 3 days, a moisture control can be performed with the help of a moisture meter to ensure the dryness of the floor screed. It is recommended to wait until the moisture content of the screed is 2%-3%. Double stage mixer and pump should be used for pump applications. Do not add more water than necessary to obtain fluidity. If too much water is added, the mortar cannot gain its strength and the excess water in the mortar forms a network-like cracked structure on the surface.

EXPENDITURE

1.6-1.8 kg/m² for 1 mm thickness (1 bag of mortar makes 1.5 m² on average).

TECHNICAL SPECIFICATIONS

Colour	Grey
Material Content	It contains cement, mineral filler and special plasticising polymer additives. Cement screed material used in the interior of buildings
Grain Size (EN 12192-1)	< 0.4 mm
Bond Strength (EN 13892-8)	≥ 0.2 N/mm ⁽²⁾ (B0.2-F:B) (after 28 days - from concrete)
Flexural Strength (EN 13892-2)	≥ 3.0 N/mm ⁽²⁾ (F5) (after 28 days)

VARLIK MINERAL GEOTHERMAL ENERGY MINING CONSTRUCTION TRADING CO.

CENTRE: Beştepe Mah.No:1/113 Yenimahalle/Ankara

ANTALYA FACTORY: Çıplaklı Mah. 22171 Cd. No:14 Döşemaltı/Antalya


E-MAIL info@kraftbau.com.tr

TEL: 444 6 190

Kraftbau.com.tr

TECHNO KRAFT SELF LEVELLING

TECHNICAL DATA SHEET

Compressive Strength (EN 13892-2)	$\geq 4 \text{ N/mm}^{(2)}$ (after 24 hours) $\geq 10.0 \text{ N/mm}^{(2)}$ (C25) (after 28 days) $\geq 25.0 \text{ N/mm}^{(2)}$ (C35) (after 28 days - with TECHNO KRAFT Adherence Enhancing Acrylic Primer additive)	
Abrasion Resistance (EN 13892-3)	A3	
Surface Hardness (EN 13892-6)	SH30	
Reaction to Fire (EN 13501-1)	A1	
Socket Time (EN 13454-2)	17-18 hours	
Maturation Period	min 5 minutes	
Mixing Ratio	25 kg powder + 7,5-8 kg water	
Application Thickness	at least 2mm up to 10 mm For minimum 10 mm and maximum 30 mm application thickness, 0-4 mm sand can be added as 30% by weight (7,5 kg sand in 25 kg powder). The added sand should be clean and dry.	
Temperature Resistance	-40°C / +100°C	
Container Life	1 hour	
Shelf Life	12 months from the date of manufacture under appropriate storage conditions When not in use, the packaging should be tightly closed and the material should be consumed within 1 week at the latest.	

The above values are valid at +21 °C and 50% relative humidity.

PACKAGING and STORAGE

CODE	PACKAGING
KR-6010	TECHNO KRAFT Self Leveling (25 kg)

Store the material in its unopened packaging in a dry environment, protected from frost. Do not stack pallets on top of each other especially for long term storage.

VARLIK MINERAL GEOTHERMAL ENERGY MINING CONSTRUCTION TRADING CO.

CENTRE: Beştepe Mah.No:1/113 Yenimahalle/Ankara
 ANTALYA FACTORY: Çıplaklı Mah. 22171 Cd. No:14 Döşemaltı/Antalya
 E-MAIL info@kraftbau.com.tr
 TEL: 444 6 190
 Kraftbau.com.tr