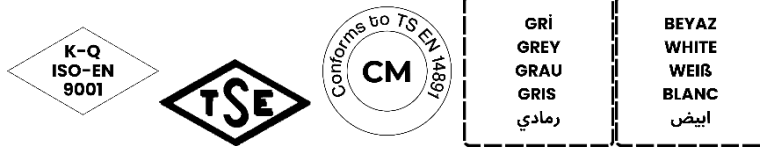


TECHNICAL DATA SHEET

**TECHNO KRAFT DOUBLE COMPONENT SEMI-FLEXIBLE WATERPROOFING
MORTAR**

DESCRIPTION

It is a two-component semi-flexible waterproofing mortar with liquid polymer and cement additives.



TS EN 14891 - Liquid waterproof products for use under ceramic tiles attached with adhesives - Requirements, conformity assessment, classification and brief demonstration

Complies with the CM class.

CM: Liquid applied waterproofing product with normal cement

USAGE PLACES

- Indoors and outdoors - **from the direction from which the water comes (positive pressure)** in horizontal and vertical applications,
- In basic insulation,
- Insulation against water ingress of surfaces that will remain constantly wet,
- For applying a cement-based waterproofing on concrete and terraces,
- Repair of immobile cracks in concrete structures and water impermeability,
- Water tanks (covered) and terraces (covered) except for drinking water

POINTS TO BE AWARE OF

Do not apply on wood, OSB, PVC, bitumen surfaces, painted and metal surfaces.

- Do not apply within 24 hours on surfaces where frost hazard may occur.
- Avoid application under sun and strong wind. Application must be made when the surface temperature is between +5 °C and +25 °C.
- Thickness should be 2-3 mm in application. In general, applying two coats provides a healthier result.
- It should not be applied on surfaces where movement may be excessive.
- In waterproofing applications, care should be taken to ensure that the fixing anchors do not damage the waterproofing layer. In such cases, first anchorage and then waterproofing should be applied.
- It should be protected from direct contact with UV rays and should not be left open.
- Liquid component freezes at temperatures below 0 °C. Opened packages should be used within 7 days at the latest.
- It is recommended to use protective gloves during applications. For more detailed protective measures, please refer to the material safety data sheet of the product.

ADVANTAGES

- Two component, does not require water.
- Ratios of components are indicated on the packaging.
- It is applied on the surface of the structures in contact with water (Positive Pressure).
- Can be applied with a brush.
- Not corrosive for steel or reinforcement. Reduces carbonation that may occur in concrete.
- Forms a water impermeable layer. Allows the surface to breathe by passing water vapour.
- Semi-elastic.

SURFACE PREPARATION

The application surface must be clean, smooth and free from loose particles, oil, grease, etc. and must be level . Holes and cracks on the

KRAFTBAU YAPI KİMYASALLARI İNŞAAT MADEN ENERJİ JEOTERMAL SANAYİ VE TİCARET A.Ş.

Zübeyde Hanım Mah. Sarma Cad. 4/5 Altındağ/Ankara

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surface over 5 mm should be filled with **KRAFT Repair Mortar (thin or thick)** 2 - 3 days in advance (see **KRAFT Repair Mortar**). If the surface is not flat enough, the floor should be levelled with **TECHNO KRAFT Self Leveling** vertical **KRAFT Ready-Mixed Plaster** (see **TECHNO KRAFT Self Leveling - KRAFT Ready-Mixed Plaster**). The surface must be prepared with pressurised water or abrasive machines. For very porous surfaces and hot air applications (if the surface temperature is above +25 °C), the surface must be pre-wetted so that it is moist for the appropriate temperature. This will prevent the mortar from losing its water fast.

USAGE MANUAL**Fluid Consistency**

The liquid component of TECHNO KRAFT Double Component Semi-Flexible Waterproofing Mortar is shaken well before use. Pour half of the liquid component specified in the mixture ratio into a clean container and then add the powder component on it. While adding the powder component, the remaining liquid component is added and mixed with a mixer at 400-600 rpm until a homogenous, lump-free mixture is obtained. Let the mixture stand for 5 minutes and mix again. Apply the mixture to the surface with a stiff brush in one direction only. The second coat is applied perpendicular to the first coat after making sure that the first coat is dry (drying time between coats varies according to weather conditions and surface condition of the applied surface). After the application, the surface should be cured with polythene covers or similar methods to protect it from direct UV rays. The mortar can be covered with a screed or ceramic. If the mixture applied to the surface during the application takes a matt appearance in a very short time, the surface was not wetted sufficiently before application. In such hot and windy weather, the application should not be made until the surface temperature is reduced. **TECHNO KRAFT Flexible Dilatation Tape** or **TECHNO KRAFT Chamfer Tape** should be used for horizontal-vertical joints during application.

For Mesh Application

TECHNO KRAFT Double Component Semi-Flexible Water Insulation can also be applied with insulation mesh if desired. It is sufficient for the application if the insulation mesh to be used is 160-165 gr/m⁽²⁾ (**KRAFT Reinforcement Mesh**). The mortar is mixed according to the specified liquid mixture ratio in fluid consistency. Insulation mesh is placed on the surface while the material is still wet. Second coat is applied after the first coat application.

MIXING RATIOS

TECHNO KRAFT Double Component Semi-Flexible Waterproofing Mortar	Powder Component	Liquid Amount
Mixture Amount	20kg	6.5 kg liquid-fluid consistency

EXPENDITURE

1.8-2.0 kg/m²/mm (excluding spillage and losses)

TECHNO KRAFT DOUBLE BINDER SEMI-FLEXIBLE WATERPROOFING MORTAR

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TECHNICAL SPECIFICATIONS

Colour	Grey-white
Material Content	Powder Component: Contains cement, mineral filler and chemical additives. Liquid Component: Styrene acrylic copolymer
Application Thickness	Minimum 2mm Maximum 4mm
Maturation Time	min 5 min
Adhesion Strength (EN 14891)	TS EN 14891 Liquid applied waterproof product under ceramics attached with adhesives on exterior walls and floors (bonded with class C2 adhesive according to EN 12004) - Initial Tensile Bond Strength. $\geq 0.5 \text{ N/mm}^2$ - Tensile Adhesion Strength after Heat Aging. $\geq 0.5 \text{ N/mm}^2$ - Tensile Adhesion Strength After Contact with Water $\geq 0.5 \text{ N/mm}^2$ - Tensile Adhesion Strength after Freezing Thawing $\geq 0.5 \text{ N/mm}^2$ - Tensile Adhesion Strength after Calcareous Water Contact. $\geq 0.5 \text{ N/mm}^2$
Crack Bridging (EN 14891)	$\geq 0.75 \text{ mm}$
Water Impermeability (EN 14891)	$\geq 1.5 \text{ bar (positive)}$
Container Life	1.5 hours
Covering	3 days later
Opening to Traffic	7 days later
Temperature Resistance	-30°C / + 80°C
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-5100-1	TECHNO KRAFT Two Component Semi-Flexible Waterproofing Mortar (grey)
KR-5150-1	TECHNO KRAFT Two Component Semi-Flexible Waterproofing Mortar (white)

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.

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