

(TECHNICAL DATA SHEET)

TECHNO KRAFT DOUBLE BONDED FULLY FLEXIBLE WATERPROOFING MORTAR

DESCRIPTION

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



TS EN 14891 Waterproof products applied in liquid form for use under ceramic tiles attached with adhesives - Requirements, conformity assessment, classification and brief demonstration

Complies with CMP class.

CMP: Normal cement liquid applied and chlorinated water resistant waterproofing product

USAGE PLACES

- **From the direction of water (positive pressure)** in indoor and **outdoor-horizontal** and vertical applications
- As a waterproofing product on foundation walls in renovation applications of buildings
- Insulation of permanently wet surfaces against water ingress
- Insulation of foundation, basement and floors
- For applying a cement-based waterproofing on concrete and terraces
- In inert crack repair and water impermeability in concrete structures
- Olympic pools, water tanks (covered), terraces (covered)

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 surface.
- 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 UV rays.
- 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.
- Its components are proportioned in its packaging.
- It is applied to the surface of the structures in contact with water (Positive Pressure)
- Can be applied with brush.
- It is not corrosive for steel or reinforcement. Minimises carbonation that may occur in concrete.
- Forms a water impermeable layer. Allows the surface to breathe by passing water vapour.
- Fully elastic. It has crack bridging superiority.
- It is resistant to salt effect in the soil.

SURFACE PREPARATION

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

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

Shake **TECHNO KRAFT** Double Component Fully Flexible Waterproofing Mortar liquid component thoroughly 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 should be covered with **TECHNO KRAFT Adherence enhancing acrylic** primer-added 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, 10% water can be added to the mortar from outside. **TECHNO KRAFT Flexible Dilatation Tape** or **TECHNO KRAFT Chamfer Tape** should be used for horizontal-vertical joints during application.

Trowel Consistency

TECHNO KRAFT Double Component Fully Flexible Waterproofing Mortar is added into the liquid specified in the mixture ratio and mixed with a mixer at 400-600 rpm until a homogenous, lump-free mixture is obtained. Allow the mixture to rest for 5 minutes. Mix again. The prepared mortar is applied to the surface with a trowel. Application should be made with a layer thickness of 4 mm. Chamfering can be done at horizontal-vertical joints with a thickness of approximately 3 cm. If more effective and flexible insulation is required, **KRAFT Flexible Dilatation Tape** or **KRAFT Chamfer Tape** can be used.

For Mesh Application

TECHNO KRAFT Two Component Fully Flexible Waterproofing Mortar 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 g/m² (**KRAFT Reinforcement Mesh**). The mortar is mixed according to the specified liquid mixture ratio in a flowable consistency. Insulation mesh is placed on the surface while the material is still wet. Second coat is applied after the first coat application.

MIXTURE RATIOS

TECHNO KRAFT Double Component Sliding Waterproofing Mortar	Powder Component	Liquid Amount
Mixture Amount	20kg	10 kg liquid-fluid consistency
Mixture Amount	20kg	7 kg liquid-mala consistency

EXPENDITURE

1.6-1.8 kg/m²/mm (excluding spillage and losses).

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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 Adhesion 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. $\geq 0.5 \text{ N/mm}^2$ - Shrinkage after chlorinated water contact. Muk. $\geq 0.5 \text{ N/mm}^2$
Crack Bridging (EN 14891)	$\geq 0.75 \text{ mm}$
Water Impermeability (EN 14891)	$\geq 3.0 \text{ bar (positive)}$
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-5100-2	TECHNO KRAFT Two Component Sliding Waterproofing Mortar (grey)
KR-5150-2	TECHNO KRAFT Two Component Sliding Waterproofing Mortar (white)
KR-52000-2	TECHNO KRAFT Two Component Sliding Waterproofing Mortar (white)(UV)

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.