

# TECHNO KRAFT POLYURETHANE-BASED INSULATION UV

**Single-component, polyurethane-based,  
UV-resistant, liquid waterproofing material.**

## PRODUCT DESCRIPTION

**TECHNO KRAFT POLYURETHANE-BASED INSULATION UV** is a single-component, polyurethane-based, UV-resistant liquid waterproofing material. It forms a durable insulation layer with excellent adhesion to various surfaces. It has high resistance to tension, tear, and abrasion. Its continuous elastic structure provides superior crack bridging capability.

## FEATURES

- Cold-applied and easily applied using a roller, trowel, or brush.
- Can be applied seamlessly.
- Highly elastic.
- Ready for use.
- Not affected by standing water.
- Not affected by adverse weather conditions.
- Suitable for light pedestrian traffic.
- Maintains its physical properties at temperatures ranging from -30°C to +90°C.
- Repairable.
- Provides excellent adhesion to the surface it is applied to.
- High resistance to chemicals.
- High resistance to elongation, tensile strength, tear resistance, and abrasion.
- Does not contain toxic substances after curing.

## APPLICATION AREAS

- Roofs and terraces,
- Roof gutters and rainwater drainage systems,
- Waterproofing of areas such as bathrooms, kitchens, and balconies (undercoating),
- Repair of existing polyurea applications,
- Lightweight roofs made of metal and fibrous materials,
- Used with an appropriate primer on concrete, wood, and metal surfaces.

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**KRAFTBAU CONSTRUCTION CHEMICALS MINING ENERGY GEOTHERMAL INDUSTRY AND TRADE INC.**

**HEADQUARTERS:** Zübeyde Hanım Mah. Sarma Cad. 4/5 Altındağ/Ankara

**Ankara Factory:** ORHANIYE MAH. 2073. CAD. NO: 27-A KAHRAMANKAZAN/ANKARA

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## APPLICATION METHOD

Surface preparation:

Mechanical surface preparation (blastrack, rotatiger, etc.) must be performed. The resulting dust layer should be swept away with industrial vacuum cleaners, and the surface to be applied must be solid, dry, and clean. All dust, oil, paraffin, bitumen, and other substances that may reduce adhesion must be removed, and all loose mortar, plaster, etc., must be cleaned from the surface. Edges and corners (4x4 cm) must be chamfered. Concrete quality must be at least C20/25, 28 days old. The tensile strength of the reinforced concrete surface should be 1.5 N/mm<sup>2</sup>, the moisture content should be 4%, and the surface temperature should be +8°C. Relative humidity should be measured and should be <85%. The success of the application depends on the proper preparation of the surface and the correct use of the material.

After surface preparation is complete, absorbent surfaces are primed with solvent-free epoxy primer or polyurethane primer. On damp surfaces and glazed surfaces such as ceramic or metal, a moisture-tolerant primer must be used.

### Mixing Instructions

TECHNO KRAFT POLYURETHANE-BASED INSULATION UV is a single-component, ready-to-use product. To ensure a homogeneous mixture, the product temperature must not be below 15°C. Before application, the material must be mixed at low speed (300-400 rpm) using a suitable mixer and nozzle until it reaches a homogeneous consistency.

### Application:

TECHNO KRAFT POLYURETHANE-BASED INSULATION UV can be applied using a roller, fine-toothed trowel, spray machine, or brush. The first coat should be applied evenly to the surface using the selected method. The second coat should be applied using the same method after an average of 12 hours. The interval between coats must not exceed 24 hours.

- If the intercoat drying time exceeds 24 hours, the first coat must be sanded and a primer coat must be applied.
- If the material is to be applied by spraying, it must be diluted with a primer available at before application.
- The material must be protected from water, rain, external factors, and mechanical impact until it has fully cured.
- It should be noted that the curing time may be shorter in hot weather and longer in cold weather.

## CONSUMPTION

1,500 – 2,500 kg/m<sup>2</sup>

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## PACKAGING

25 kg Tin

## COLOUR

Grey – White

## STORAGE / SHELF LIFE

- Protect from adverse weather conditions.
- Store in a dry, cool, closed environment (+10°C to +25°C).
- Once opened and mixed, the product should be consumed immediately.
- In unopened packaging, stored in dry places at a minimum temperature of +5 °C, it has a shelf life of 12 months.

## TOOL CLEANING

Tools used can be cleaned with a solvent; if the material is dry, it should be cleaned mechanically.

## WARNINGS

- When applying in enclosed areas, ensure the area is well ventilated.
- In cold weather, packaging must be stored at a minimum temperature of +15°C for at least 24 hours prior to application.
- After application, the surface must be protected from water, rain, dew, snow, hail, frost, and similar environmental effects until it is completely dry.
- Do not approach with an open flame and do not smoke during application.
- Use gloves, goggles, and protective clothing.
- If it comes into contact with skin, wash with soap and plenty of water.
- Do not swallow. Do not use empty containers for storing food or dispose of them in fire.
- For professional use only; keep out of reach of children.

## SAFETY

Users should consult the latest Material Safety Data Sheets, which include physical, ecological, toxicological, and other safety-related data, to obtain information and advice on the safe handling, storage, and disposal of chemical products.

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## TECHNICAL SPECIFICATIONS

| QUALITY                                       | UNIT              | METHOD                                | CHARACTER   |
|-----------------------------------------------|-------------------|---------------------------------------|-------------|
| Colour                                        |                   |                                       | White, Grey |
| Viscosity (BROOKFIELD)<br>(23°C and 55% RH)   | cP                | ASTM D2196-86                         | 4000-7000   |
| Specific gravity<br>(23°C and 55% RH)         | g/cm <sup>3</sup> | ASTM D1475 / DIN 53217 /<br>ISO 2811, | 1.40 ± 0.05 |
| Flash point                                   | oC                | Open cup                              | >40         |
| Walkable time<br>(23°C and 55% RH)            | hours             | -                                     | 8 * 12      |
| Re-coating<br>(23°C and 55% RH)               | hours             | -                                     | 8 * 12      |
| Hardness (7 days)                             | Shore A           | ASTM D2240 / DIN 53505 / ISO<br>R868  | 60-65       |
| Tensile Strength<br>(23°C and 55% RH)(7 days) | N/mm <sup>2</sup> | DIN 53504                             | > 3         |
| Elongation at break<br>(23°C and 55% RH)      | %                 | DIN 53504                             | > 600       |
| Adhesion to concrete                          | N/mm <sup>2</sup> | ASTM D4541                            | > 2         |

### LEGAL WARNING

The information provided here regarding KRAFT POLYMER products, and in particular the recommendations for their application and end use, is provided in good faith based on KRAFT POLYMER's current knowledge and experience under normal conditions and in accordance with KRAFT POLYMER's recommendations, provided that these products are stored, handled and applied correctly. Products, application surfaces, and application areas can vary significantly in practice. Therefore, when using KRAFT POLYMER products, ensure that you are using the correct product under the correct conditions and in the correct location, and strictly adhere to the information and instructions provided by KRAFT POLYMER regarding commercial suitability and/or suitability for a specific purpose. KRAFT POLYMER shall not be liable for any damages that may arise otherwise. The user of the product (user) must test the suitability of the product for the intended application and purpose. KRAFT POLYMER reserves the right to modify the properties of its products. The property rights of third parties must be respected. All orders are subject to our current terms and conditions regarding sales and shipping. Users must always refer to the latest version of the Product Information Sheet available from KRAFT POLYMER for the relevant product.

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