

TECHNO KRAFT BITUMEN-BASED POLYURETHANE INSULATION

**Two-component, bitumen-based polyurethane,
Liquid Waterproofing Material.**

PRODUCT DESCRIPTION

TECHNO KRAFT BITUMEN-BASED POLYURETHANE INSULATION is a two-component, bitumen-containing polyurethane-based, highly elastic liquid waterproofing material. It is applied cold. It forms a durable waterproofing 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.

PROPERTIES

- Cold-applied and easily applied using a roller, trowel, or brush.
- Can be applied seamlessly.
- Highly elastic.
- Resistant to plant roots.
- Not affected by standing water.
- Not affected by adverse weather conditions.
- Maintains its physical properties at -30°C/+80°C.
- Provides excellent adhesion to the surface it is applied to.
- It offers high resistance to chemicals.
- High resistance to elongation, tensile strength, tear resistance, and abrasion.
- Does not contain toxic substances after curing.

APPLICATION AREAS

- Building foundations,
- Retaining walls,
- Roofs and terraces, green roof terraces,
- Roof gutters and rainwater drainage systems,
- Waterproofing of areas such as bathrooms, kitchens, and balconies (under the coating),
- Existing polyurea repairs,
- Lightweight roofs made of metal and fibrous materials,
- On concrete, wood, and metal surfaces, it is used with an appropriate primer.

APPLICATION METHOD

Surface preparation:

Before application, all factors that may weaken adhesion, such as oil, loose cement particles, paraffin, grease, mould release agents, and old membranes, must be removed from the surface. If necessary, all surfaces should be washed with pressurised water and thoroughly dried. Surface damage should be repaired with appropriate repair products.

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 should be used.

Mixing Instructions

TECHNO KRAFT BITUMEN-BASED POLYURETHANE INSULATION should be prepared by mixing the two components in the specified ratio, taking into account the pot life of the mixture, and only in the amount that will be consumed. To ensure a homogeneous mixture, the product temperature should not be below 15°C. The material should be mixed at low speed (300-400 rpm) using an appropriate mixer and nozzle until a homogeneous consistency is achieved before application.

Application:

TECHNO KRAFT BITUMEN-BASED POLYURETHANE INSULATION can be applied using a roller, fine-toothed trowel, spray machine or brush. The first coat is applied evenly to the surface using the selected method. The second coat is applied using the same method within 4–24 hours. The time between coats must not exceed 24 hours.

- If the intercoat 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 thinned with a primer 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 waiting time may be shorter in hot weather and longer in cold weather.

CONSUMPTION

Total Consumption: 1.50 - 2.00 kg/m²

PACKAGING

Component A	Component B	(A+B) Set
20 kg drum	20 kg bucket	40 kg set

COLOUR

Black

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.

TECHNICAL SPECIFICATIONS

QUALITY	UNIT	METHOD	CHARACTER
Colour			Black
Viscosity (BROOKFIELD) (23°C and 55% RH)	cP	ASTM D2196-86 / TS 5833 EN ISO 3219	A+B 3500 – 4500
Specific gravity (23°C and 55% RH)	g/cm ³	ASTM D1475 / DIN 53217 / ISO 2811	1.00 ± 0.05
Flash point	oC	ASTM D93, closed container	42
Walkability time (23°C and 55% RH)	hours	-	16 - 24
Full cure	days		5
Re-coating	hours	-	12 * 24
Hardness (7 days)	Shore A	ASTM D2240 / DIN 53505 ISO 868	35
Tensile Strength (23°C and 55% RH)(7 days)	N/mm ²	ASTM D412	> 2.2
Elongation at break (23°C and 55% RH)	%	ASTM D412 / EN-ISO-527-3	> 2,000
Shelf life (23°C and 55% RH)	Minutes		30

LEGAL WARNING

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