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BİTÜWAP 9549 SHIELD PU BITUMEN 2 – K ECO TECHNICAL SPECIFICATIONS

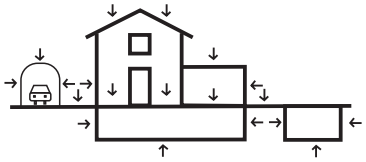
TWO COMPONENT, POLYURETHANE AND BITUMEN BASED, 1500 % ELASTIC LIQUID WATERPROOFING MEMBRANE

DESCRIPTION FOR IT

It is a fast curing, two component, bitumen enriched, polyurethane based liquid waterproofing membrane with 1500% elongation capability. It adheres strongly to almost any type of surface, forming a highly elastic film. It offers excellent resistance to chemicals and mechanical impact. It can also be used as a joint sealant. Its composition is based on polyurethane resin, reinforced with chemically polymerized bitumen.

AREAS OF USE

It is used on gypsum and cement panels, polyurethane insulation foams, bituminous membranes, epdm membranes, and in bathrooms (under tiles), on verandas and balconies (under tiles), and on cement roofs. It also provides robust waterproofing for metal or fiber roofs, water tanks (excluding potable water reservoirs), floors, foundations, bridge decks, cut and cover tunnels, and irrigation canals.



ADVANTAGES

It cures rapidly, allows for thick layer application, and does not form bubbles. Unmixed components not used during application can be stored for later use. Due to its low modulus, it offers excellent crack bridging capabilities. It exhibits effective resistance to chemicals. It adheres perfectly to all types of surfaces, with or without a primer. Although thinning is not required, it can be diluted with polyurethane thinner depending on conditions. It has excellent thermal resistance; the product does not soften. The maximum service temperature is 80°C, and the maximum peak temperature is 200°C. It is resistant to cold, maintaining its elasticity down to -40°C. It possesses excellent mechanical properties, including high elongation, tensile strength, tear strength, and abrasion resistance. It functions effectively as a water vapor barrier. It can also be applied as a joint sealant.

APPLICATION CONDITIONS

Application should not be carried out in very hot or very humid weather. The ambient temperature during application must be between +5°C and +30°C. It should not be applied to surfaces that are thawing or frozen, or to surfaces at risk of freezing within 24 hours. Old mineral surfaces that are dusting/crumbling must be repaired (using Polywap İZ K 6000) prior to application.

TOOLS USED

Hand mixer, grout pump, brush, roller, trowel.

SURFACE PREPARATION

If the surface to be treated is new, it must be clean, smooth, sound, and free from frost, as well as clear of residues such as cement remnants, loose particles, and substances that impair adhesion including oil, dirt, rust, algae, and dust. Internal corners should be beveled using WAP TH-602 repair mortar, while external corners should be rounded off by grinding them down using mechanical methods. On surfaces that are pitted, irregular, or porous, a skim coat of the mixed BİTÜWAP 9549 SHIELD BITUMEN 2K ECO should be applied using a spatula or trowel to level the surface and prevent the formation of air bubbles.

APPLICATION

Mix equal amounts of the two components using a low-speed mixer (300 rpm) and apply immediately. The pot life of the mixture is 30–45 minutes at 20°C. For airless spray application, the mixture may need to be thinned with a small amount of thinner, particularly if using a low-power machine. Apply the material using a brush, roller, or spatula.

CONSUMPTION

First coat: 0.8 – 0.9 kg/m²; Second coat: 0.7 – 0.9 kg/m²
Minimum consumption: 1.5 – 1.8 kg/m²
For application using an insulation pump: minimum 0.8 kg/m² per coat, with a total consumption of 1.6 kg/m²
Minimum total consumption: 1.2 – 1.6 kg/m²

TOOL CLEANING

All tools must be washed with thinner immediately after application, before the product dries.

PACKAGING

30 kg set (20 kg liquid + 10 kg liquid) in a metal pail.

STORAGE AND SHELF LIFE

The shelf life is 12 months from the date of manufacture, provided the product is stored in a dry, moisture free environment away from direct sunlight and the packaging remains undamaged and unopened. Packaging must be protected from freezing temperatures and excessive heat. Pallets must not be stacked on top of each other during transport and storage.

STANDARD

EN 1504-2:2004 CE Certificate

TECHNICAL SPECIFICATIONS

Appearance	A: liquid. B: Liquid
Viscosity (mixture) (+25°C)	3500 cP
Intensity	1,20 ± 0,05 gr/cm³ 20°C
Mixing Ratio	2:1 (A: B)
Ignition Point	>40 °C
Mixing time (+25°C)	30–40 minutes
Drying Time	1-2 hours
Inter-floor Waiting	6-24 hours
Serving Temperature	-40 ile 80 °C
Short-Duration Maximum Shock	150 °C
Shore A Hardness	35
Elongation at Break	>1500
Tensile Strength	40 kg/cm² (4 N/mm²)
Thermal Resistance	passed
QUV: 60°C, 4 hours, UVA/UVB lamps	1,000 hours have passed.
Chemical Resistance: Sodium hypochlorite 5% 10 days	not affected
Hydrolysis Resistance: 8% Potassium Hydroxide at 50°C for 10 days	not affected
Water Absorption	<0,9 %

WARNINGS AND RECOMMENDATIONS

When mixing the product, only its own liquid should be used excluding thinner and absolutely no foreign substances should be added. Additionally, methane gas seeping from the ground may have accumulated inside the tanks. Precautions must be taken with this possibility always in mind.

SAFETY WARNINGS

As it contains flammable substances, do not smoke, light fires, or use tools that may generate sparks during application. Since it releases toxic fumes while drying, ensure proper ventilation and take health precautions if used in enclosed spaces. Do not leave the container lid open. Do not expose to direct sunlight or heat. Keep out of reach of children. Always use appropriate safety equipment such as masks, gloves, and goggles. Protect your eyes and face. Avoid contact with eyes and skin. In case of eye contact, rinse immediately with plenty of water and consult a specialist. Read the Material Safety Data Sheet for detailed safety information.

LEGAL DISCLAIMER

İZOFALT Insulation Construction Textile Ind. And Trade Ltd. Co. İs not responsible for application errors that may occur if the product is used for purposes other than intended or if the above conditions are not complied with.

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