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THERMOWAP UV PAR AL 4500 TECHNICAL SPECIFICATIONS

IT IS A WATERPROOFING MEMBRANE MADE OF APP POLYMER MODIFIED BITUMEN WITH A POLYESTER FELT CARRIER

DESCRIPTION FOR IT

Thermowap UV PAR AL 4500 : is a water and heat insulation membrane made from bitumen with a polyester felt carrier and APP (atactic polypropylene) additive, featuring a PE film underlay and an aluminum mineral coating on the top surface. It has a superior plastomeric structure and is applied with a blowtorch.

AREAS OF USE

It is applied to flat or sloping concrete roofs of buildings to provide water and moisture insulation. In the production of gazebos, garden sheds, verandas, prefabricated structures, and container homes, it provides both water and heat insulation and creates a visually appealing colored coating on wooden, fiber cement board, and metal surfaces for roof and side wall coverings. Designed for temperate climates, it is applied as a final layer for waterproofing.



ADVANTAGES

Superior performance in moderately cold and hot climates.

SURFACE PREPARATION

The surface to be coated must be clean and dry, free from oil, dirt, rust, silicone, and dust. The surface must be free of sharp protrusions and loose aggregates and primed with izofalt membrane primer.

APPLICATION METHOD

On the condition of the horizontal surface, the application is done from the lowest to the highest elevation, and on vertical surfaces, horizontally from bottom to top, using a blowtorch flame for heating. The short side joint should be 15 cm, and the long side joint should be 10 cm for every 1 meter. A stagger of 50 cm on the short side and 5 meters on the long side should be applied between layers.

STORAGE SHELF LIFE

Must be transported and stored in an upright position. Necessary precautions should be taken to prevent membrane rolls from tipping over during transport. Our product should be stored in covered warehouses with flat floors. Care should be taken to prevent the rolls from receiving hard impacts during loading, unloading or transport. It should be stored in its original packaging, in a dry environment, away from direct sunlight, at temperatures between +5°C and +25°C.

TOOLS USED

Blowtorch, trowel, mechanical wheel, spatula, gloves.

STANDARDS

TS EN – 13969

TECHNICAL SPECIFICATIONS

FEATURES	UNIT	STANDARD	UV DESENLİ PAR AL 4500
CARRIER	gr		Polyester Felt 180
LOWER/UPPER COATING		TS EN 13707	Pe film/Mineral
THICKNESS	mm	TS EN 1849-1	4,5 mm ±%0,2
WEIGHT	kg/m	TS EN 1849-1	5,2 - 5,4
WATER IMPERMEABILITY		TS EN 1928	Compatible
HEAT RESISTANCE	°C	TS EN 1110	120
COLD FLEXIBILITY	°C	TS EN 1109	-10
TENSILE STRENGTH (LENGTH)	N/5 cm	TS EN 12311-1	1000
TENSILE STRENGTH (WIDTH)	N/5 cm	TS EN 12311-1	800
ELONGATION AT BREAK (LENGTH)	%	TS EN 12311-1	35
ELONGATION AT BREAK (WIDTH)	%	TS EN 12311-1	35
ROLL SIZE	m	TS EN 1848-1	1X8

WARNINGS AND RECOMMENDATIONS

There must be no water, moisture, ice or snow on the surface to be applied. The torch flame must be held evenly over the membrane; excessive heating can burn the carrier reinforcement (polyester felt). When the rolls are unrolled, the thin nylon film on the front surface must melt and provide adhesion. Application must always be done perpendicular to the water flow direction / on the vertical slope, from bottom to top (according to level/slope).

SAFETY WARNINGS

1. Fire Safety
Fire Extinguisher: Always keep a full and working fire extinguisher in the work area.
Flammable Materials: Remove flammable materials such as thinner, solvent, plastic or wood from the application area.
Torch Control: Never leave the torch flame unattended or burning.
Gas Leak: Regularly check LPG cylinder and hose connections with soapy water for leaks.
2. Personal Protective Equipment
Clothing: Wear heat and molten bitumen resistant, cotton, long-sleeved work clothes. Synthetic fabrics can melt and stick to skin.
Gloves: Use heat resistant, thick leather or special protective work gloves.
Footwear: Prefer steel-toed work shoes with non-melting soles.
Eye and Face Protection: Wear protective goggles or face shield against splashes and intense light.
3. Working at Height and Environmental Safety
Fall Protection: Wear full-body safety harness and attach to lifeline when working on roof and terrace edges.
Railings: Ensure safe barriers or railing systems are installed at edges.
Weather Conditions: Do not apply on roof in extremely windy, rainy or icy weather.
Voids: Be extra careful of fall risk when working around chimney bases and ventilation shafts .
4. Health and Environmental Conditions
Ventilation: Ensure very good ventilation of the environment when applying primer and membrane in closed areas (basement, warehouse, etc.)
Toxic Gases: Try not to inhale smoke directly when bitumen melts, use a mask if necessary.
First Aid: In case of possible burns, immediately apply cold water to the burned area and seek medical help without applying any chemicals.

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.