izofalt yalıtım

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PROFALT Y 4500 TECHNICAL SPECIFICATIONS

POLYESTER FELT CARRIER, SBS POLYMER MODIFIED BITUMEN BASED, NEW GENERATION WATERPROOFING MEMBRANE

DESCRIPTION FOR IT

Profalt Y 4500 is a new generation base waterproofing membrane produced from SBS (styrene-butadiene-styrene) modified bitumen with a polyester felt carrier. It has a PE film on the lower surface and a silica mineral coating on the upper surface. It has a superior elastomeric structure and is applied by torching.
It provides excellent adhesion to concrete surfaces by reacting through hydration heat and mechanically.

AREAS OF USE

Under foundation and envelope waterproofing. In areas with high foundation depth. Single-face diaphragm walls. Areas with high water pressure.



ADVANTAGES

Provides savings in excavation costs of the construction site. Eliminates the need for protection concrete and separating geotextile felt in horizontal applications. During horizontal applications, provides labor savings by bonding only at overlaps. Eliminates the need for extra tape in some sensitive areas. Thanks to the high strength reinforced polyester felt, it is resistant to hydrostatic pressure, puncture and tearing.

SURFACE PREPARATION

In accordance with standards, the surface of the lean concrete to be poured with sufficient strength and thickness must be troweled. The surface must be free of sharp protrusions and loose aggregates. The surface to be applied must be clean and dry, free of oil, silicone and dust, and must be primed with İzofalt membrane primer.

APPLICATION METHOD

After the lean concrete poured on the foundation base of the structure with sufficient thickness and strength according to standards has cured, the joints of Profalt Y 4500 must be bonded by heating with a torch. Short side overlap is 15 cm, long side overlap is 10 cm.

STORAGE AND SHELF LIFE

Must be transported and stored in an upright position. Necessary precautions must be taken to prevent membrane rolls from tipping over during transportation. Our product must be stocked in covered warehouses with a flat floor. Care must be taken to ensure that rolls do not receive hard impacts during loading, unloading or transportation. Must be stored in its original packaging, in a dry environment, without direct sunlight, between +5 °C and +25 °C.

TOOLS USED

Torch, trowel, mechanical roller, spatula, gloves

STANDARD

TS EN - 13969

TECHNICAL SPECIFICATIONS

FEATURES	UNIT	STANDART	PROFALT Y 4500
CARRIER	gr		Polyester felt 300
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
WATER IMPERMEABILITY		TS EN - 1928	Compatible
HEAT RESISTANCE	°C	TS EN - 1110	min.100
COLD FLEXIBILITY	°C	TS EN - 1109	-20
TENSILE STRENGTH (LENGTH)	N/5cm	TS EN - 12311-1	800
TENSILE STRENGTH (WIDTH)	N/5cm	TS EN - 12311-1	800
ELONGATION AT BREAK (LENGTH)	%	TS EN - 12311-1	40
ELONGATION AT BREAK (WIDTH)	%	TS EN - 12311-1	40
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.