

Kemline TPO

Flexible TPO Membrane, High Strength, UV Resistant

Quality Needs Quality

Description

Kemline TPO is a homogenous roofing membrane based on Poly-olefins. This product is designed for providing waterproofing details on flat and low-sloped roofs. It can be used for detailing both in an exposed roofing membrane system or protected system for extensive green roofs. It can be welded using hot air and designed to perform well in various climatic conditions

Where to use

- Waterproofing of basins, canals, tanks, and similar structures
- Water reservoirs
- Solar roofs, green roofs, and cool roofs

Advantages

- High Tensile Strength
- High tear resistance
- Outstanding flexibility for roof detailing/accessories
- Compatible with bitumen-based membranes
- No odor and zero - VOC
- UV stable
- Resistance to perforation by roots
- Resistance for low concentration liquid chemicals
- Resistance to environmental, chemical, and biological impacts
- The product is recyclable and has a low carbon footprint

Properties

Thickness	1.5 mm ±5%	EN 1849-2
Mass per unit area	1.8 kg/m ²	EN 1849-2
External Fire performance	NPD	EN 13501-5
Reaction to fire	Class E	EN 13501-1
Water tightness (10kPa)	Pass	EN 1928 (A)
Tensile strength – L/T	≥ 12 N/mm ²	EN 12311-2 (B)
Elongation L/T	≥ 600%	EN 12311-2 (B)
Resistance to impact	≥ 600 mm	EN 12691 (A)
Resistance to static load	≥ 20 kg	EN 12730 (C)
Tear resistance L/T	≥ 150 N	EN 12310-2
Joint peel resistance	≥ 300 N/50 mm	EN 12316-2
Joint shear resistance	≥ 500 N/50 mm	EN 12317-2
Foldability at low temperature	≤ -25 °C	EN 495-5
Exposure to UV	Pass > 5000 h	EN 1297
Dangerous substances	None	
Dimensions:	Width 1.6 m	Length 20 m
Packaging	14 Rolls / Pallet	Roll 32m ²



Surface Preparation	<ul style="list-style-type: none"> • Surface must be sound, clean and dry, free from dust, laitance, grease • Sweep or vacuum any dust or loose particles • Concrete compressive Strength after 28 days should be 25 Mpa and tensile bond 1.5 Mp
Application	<p>The TPO sheets are welded together, used by an experienced professional by applying hot air or using:</p> <ul style="list-style-type: none"> • Manual welding machine with hot air • Automatic welding machine with hot air • Automatic welding machine with double track
Shelf life & Storage	<ul style="list-style-type: none"> • Kemline TPO has a shelf life of 36 months if kept in original packs in a dry condition • Keep away from direct sunlight • Store the product horizontally on a pallet • Please avoid placing pallets of rolls on top of one another or beneath pallets that hold different materials when transporting or storing them
Health and Safety	<ul style="list-style-type: none"> • Use goggles, gloves and a breathing mask when applying • Apply forced ventilation in confined spaces • Remove splashes from skin with hand cleaner or soap and water • Eye splashes to be washed with plenty of water • The product does not harm the environment when used as specified
Additional Information	<p>PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure</p> <p>PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range for our customer's satisfaction</p> <p>PROKEM reserves the right to change the properties of its products</p> <p>All orders are accepted subject to our current term of sale & delivery</p> <p>Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request</p> <p>PROKEM extends technical services to include after-sales support to assist users in the proper handling of our products</p>