Aquastop TPO

High-performance, heat weldable TPO membrane for roofing applications.

Aquastop TPO is a thermoplastic polyolefin (TPO) membrane suitable for new construction and re-roofing applications. Leveraging advanced polymerization and special weathering technology, Aquastop TPO provides exceptional resistance against UV rays, extreme temperatures, and punctures. This membrane ensures seamless surface fusion, delivering a waterproof and durable roofing assembly.



- 1. Outstanding flexibility and tear resistance: reinforced with polyester fabric for added durability.
- 2. Excellent chemical resistance and fire resistance: withstands acids, bases, and various exhaust emissions.
- 3. Excellent resistance to impact and low temperatures
- 4. Excellent resistance to heat, solar UV, and ozone
- 5. Quick installation: easy heat-welded seams for fast, clean, and consistent application.
- 6. Manufactured using a hot-melt extrusion process for complete scrim encapsulation

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Areas of application

- → Use
 - Suitable for flat and sloped roofing systems in residential, commercial, and industrial applications.

Substrates: compatible with concrete, steel, wood, and suitable insulation boards.

- \rightarrow Specific applications
 - Flat or low-slope roofs for commercial or industrial buildings.
 - Green roofs where a root barrier or waterproof layer is needed.
 - Re-roofing projects requiring heat-weldable, puncture-resistant membranes.
 - Cool roofs that demand high solar reflectance for energy savings

Instructions for use

 \rightarrow Preparation of surfaces

Ensure the surface is clean, smooth, and free of dust, oils, and other contaminants. All surfaces should be structurally sound.

Remove old, loose coatings, dirt, fats, oils, organic substances, and dust. Mechanical wire brushing or grinding may be necessary for smaller areas.

Repair substrate damage with suitable repair mortars, ensuring level surfaces with no sharp protrusions that could puncture the membrane. On surfaces exposed to direct sunlight, dampen to prevent overheating, but avoid excess water Verify all slopes are suitable for drainage to prevent standing water.

\rightarrow Membrane application

Positioning: unroll Aquastop TPO across the roof in the desired orientation, ensuring appropriate overlaps of 50-75 mm for seams. Attachment options:

- Fully adhered: use a compatible bonding adhesive on the substrate, pressing the membrane firmly to ensure adhesion.
- Mechanically fastened: secure with fasteners and plates along the edge overlaps, aligning with the substrate.
- Induction welding: position the membrane over pre-installed induction welding plates, using an induction welder to fuse the membrane and plates together.

 \rightarrow Seam welding

Use an automatic heat welder to fuse seams, creating a continuous waterproof surface. Maintain appropriate heat settings and welding speeds to achieve proper fusion. Inspect each weld using a probe to ensure complete bonding without voids or air pockets. Apply T-Joint patches as needed for added reinforcement.

→ Final adjustment and protection Conduct a thorough inspection of all seams and membrane sections to ensure no gaps or wrinkles

are present. Protect the installed membrane from heavy traffic or equipment that could damage the

surface. Take precautions on slippery surfaces, especially in frosty or wet conditions, to avoid accidents.

 \rightarrow Precautions

Sunglasses that filter out ultraviolet light are strongly recommended, as tan and white surfaces are highly reflective. Roofing technicians should dress appropriately and wear sunscreen. Surfaces may become slippery due to frost and ice buildup. Exercise caution during cold conditions to prevent falls. Exercise caution when walking on wet membrane. Membranes may be slippery when wet.

Use proper stacking procedures to ensure sufficient stability of the rolls.

Instructions for use

Store membrane in the original undisturbed plastic wrap in a cool, shaded area and cover with light-colored, breathable, waterproof tarpaulins. Membrane that has been exposed to the weather must be prepared with Weathered Membrane Cleaner prior to hot-air welding. Take care not to stand or place heavy objects on the edge of folded-over membrane, as this could cause a hard crease in the membrane. Maximum sustained temperature not to exceed 160 °F (71 °C) for TPO membrane. Do not use razor blades or other sharp tools to cut the protective film while it is still adhered to the TPO membrane as damage to the underlying membrane may occur. Pull the protective film away from the membrane prior to cutting.

Remove protective film by pulling towards the center of the roof. Do not remove the film by pulling towards the roof edge.

Color membranes will 'fade' over time mainly due to the ultraviolet portion of sunlight. Since most roof surfaces are exposed to variable sunlight, some areas will be more susceptible to color changes caused by UV fading. Warranties for color membranes do not cover fading of colors.

Special notes

- → Storage and handling: store in a cool, shaded area in original packaging. Keep away from direct sunlight and heat sources to prevent degradation.
- → UV and fire resistance: enhanced with special technology, this membrane resists fading and degradation from UV exposure. Ensure compliance with local fire code approvals if using in high-slope applications.
- → Maintenance: regularly inspect for damage or seam failures, especially after severe weather, and repair as necessary to maintain waterproofing.

Technical Data compliant with Kerakoll Quality Standard		
Thickness	1.14 mm - 1.52 mm (± 10%)	
Width	2.43 m (8 feet)	
Roll length	30.48 m (100 feet)	
Colour	white	

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Performance HIGH-TECH		
Elongation at break	> 400%	EN 12311 – 2: 2013
Tear resistance	> 400 N	EN 12310-2: 2019
Cold bending (-26 °C)	no crack	EN 495-5: 2013
Resistance to impact load	750 mm (no leakage)	EN 12691 :2018 Method A
Water tightness at 5 bar – 24 hrs	no leakage	EN 1928: 2000 Method B

Warning

- \rightarrow Product for professional use
- \rightarrow abide by any standards and national regulations
- \rightarrow if necessary, ask for the safety data sheet
- → for any other issues, contact Kerakoll Customer Care +91-22-2839 5593 / 1800 102 4957 - info@ kerakollindia.com

The Rating classifications refer to the GreenBuilding Rating Manual 2013. This information was last updated in April 2025; please note that additions and/or amendments may be made over time by KERAKOLL SpA; for the latest version, see www.kerakoll.com. KERAKOLL SpA shall therefore be liable for the validity, accuracy and updating of information provided only when taken directly from its institutional website. The technical data sheet given here is based on our technical and practical knowledge. As it is not possible for us to directly check the conditions in your building site and the execution of the work, this information represents general indications that do not bind Kerakoll in any way. Therefore, it is advisable to perform a preliminary test to verify the suitability of the product for your purposes.