



## TRI-BUILT® SMOOTH TORCH

### APP MODIFIED BITUMEN VERSATILE POLYESTER MEMBRANE WITH SMOOTH SURFACE

**PRODUCT USE:** TRI-BUILT® Smooth Torch is designed for use as a base, inter ply or cap membrane (requires coating) over various types of substrates for both new construction and re-roofing installations. It is suitable for most low sloped roof decks and may be used for roof system flashings including wall treatments, base flashings and field flashings.

**LIMITATIONS:** TRI-BUILT® Smooth Torch is intended for torch application only and should not be exposed to adhesives or solvent-based materials. Rolls should be stored upright, off the ground and completely protected from the weather. Roof decks must be structurally sound, dry, smooth and meet or exceed minimum requirements of the deck manufacturer and local code.

**PRODUCT COMPOSITION AND FEATURES:** TRI-BUILT® Smooth Torch is manufactured on state-of-the-art, dedicated roofing lines that were exclusively designed for the production of modified bitumen products. TRI-BUILT® Smooth Torch is produced with a high performance, stress-resistant polyester mat that is impregnated and coated with a superior grade, modified bitumen compound.

**Roll Dimensions:** 39<sup>3</sup>/<sub>8</sub>" X 32' 10"  
**Coverage:** One square  
**Approximate Weight:** 86 lbs. per roll  
**Top Surface:** Fine sand, release agent  
**Back Surface:** Torchable polyethylene film



**APPLICABLE STANDARDS:** Meets ASTM D6222, Grade S, Type I.

**MODIFIED BITUMEN COATING:** Non-oxidized (flux) asphalt, blended with various thermoplastic atactic polypropylene polymers and co-polymers.

**Support Mat:** High performance, stress-resistant polyester mat.

<u>Test Description</u>	<u>Test Method</u>	<u>Results*</u>
<b>Softening Point:</b>	ASTM D36	310°F
<b>Tensile Strength:</b>	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	95/55 lbs./in.
	@ 0 +/- 3.6°F MD/XD	123/72 lbs./in.
<b>Elongation:</b>	ASTM D5147	
	@ 73.4 +/- 3.6°F MD/XD	50%/60%
	@ 0 +/- 3.6°F MD/XD	30%/15%
<b>Dimensional Stability:</b>	ASTM D5147 MD/XD	0.5%/0.3%
<b>Low Temperature Flex:</b>	ASTM D5147	Pass @ 8°F
<b>Compound Stability:</b>	ASTM D5147	250°F
<b>Thickness:</b>	ASTM D5147	3.8 mm (140 mils)

Florida Approval FL30268

## TRI-BUILT® SMOOTH TORCH

The following information is intended for general information only and is not all-inclusive.

**Tear Strength:**

ASTM D5147

@ 73.4 <sup>+</sup>/<sub>-</sub> 3.6°F MD/XD

130/90 lbs.

**\*NOTE:** Published results are nominal production values confirmed by independent laboratory testing.

**PREPARATION:** Substrates to receive a roof system must be firmly attached, smooth, dry, clean and free of sharp projections and depressions. Substrates requiring priming must be primed with asphalt primer and be allowed to completely dry. Substrates must provide positive drainage. Roof must be tapered to drains.

**INSTALLATION:** Install one ply of base sheet lapping 2" on sides and 4" on ends. Base sheet must be mechanically fastened to nailable substrates and either solid or spot mopped in hot asphalt to non-nailable or insulated substrates. Apply base sheet in such a manner to provide and maintain a minimum 6" offset between side and end laps of base and finishing membrane. Over the base, install one ply of TRI-BUILT® Smooth Torch lapping 3" on sides and 6" on ends with end laps diagonally staggered not less than 3' apart. Side and ends laps should be inspected to ensure a minimum <sup>3</sup>/<sub>8</sub>" flow of modified compound has been achieved.

**PRECAUTIONS:** Cold weather applications require special handling to prevent damage to the rolls and ensure satisfactory installation. Do not apply roofing systems over improperly prepared substrates or substrates that contain moisture. Follow all safety recommendations relating to the use and maintenance of liquid propane gas torches and equipment.

**MAINTENANCE:** TRI-BUILT® Roof Systems do not require any additional maintenance beyond normal yearly roof maintenance procedures. TRI-BUILT® recommends regular roof maintenance and inspection to determine the condition of drains, flashings and other similar items, and to prolong the life expectancy of the roof system.

**WARNING:** Torch-down application of this product may create a risk of fire, including smoldering fires. The roofing applicator is solely responsible for ensuring and enforcing safe and proper application of TRI-BUILT® products by competent and qualified personnel. Only properly trained roofing professionals are authorized to install this product.

Never apply flame directly to combustible materials or allow the flame to enter into hidden or protected areas that may contain combustible materials. Follow all local code requirements. Have a Class A-B-C fire extinguisher available to each applicator. Thoroughly inspect the job

site whenever torching equipment has been used. Be certain that all chances of a fire have been eliminated.

Refer to the Midwestern Roofing Contractors Association (MRCA) CERTA program, National LP Gas Association, National Roofing Contractors Association (NRCA), National Fire Protection Association (NFPA), and Asphalt Roofing Manufacturers Association (ARMA) for further information and safety recommendations.