

DURASTAR™ 4S APP

Technical Data Sheet

Product Name: DuraSTAR™ 4S APP

Classification: APP Modified Bitumen Roof Membrane

Product Description: DuraSTAR™ 4S APP is a durable smooth surfaced, premium APP (Atactic Polypropylene) membrane with a factory applied layer of highly reflective white ceramic coating. DuraSTAR™ 4S APP can be heat welded or installed with SafeWeld™ Premium APP Modified Bitumen Adhesive. Manufactured with a non-woven polyester mat that is saturated and coated with premium quality, non-blown asphaltic bitumen and APP resins for a durable, heat resistant, flexible and easily maintainable membrane. The membrane is finished with the highly reflective ceramic coating to protect the membrane integrity. It is designed for use as a cap membrane in modified bitumen and in hybrid built-up roof systems.

Application Method: DuraSTAR™ 4S APP is applied using propane torch welding techniques or SafeWeld™ Premium APP Modified Adhesive.

Approvals: Meets ASTM D 6222 Type I, Grade S.

Product Data: DuraSTAR™ 4S APP (typical)

Thickness: 3.8 mm (150 mils)

Weight: 88 lbs/roll (40 kg/m²)

Roll Dimensions: 39-3/8" x 32' 9" (1m x 10m). Each roll is approximately 108 sq. ft.

Physical Properties (ASTM D 5147):	Test Results	ASTM D 6222 Minimum
Tensile Strength (lbf/in), 0°F, (MD/XMD)	135/115	60 lbf/in
Tensile Strength (lbf/in), 73°F, (MD/XMD)	114/85	50 lbf/in
Elongation (% @ Max Load), 0°F, (MD/XMD)	52/56	10%
Elongation (% @ Max Load), 73°F, (MD/XMD)	47/47	23%
Elongation (% @ 5%, Max Load), 73°F, (MD/XMD)	52/53	3%
Tear Strength (lbf), (MD/XMD), 73°F, minimum	134/122	70 lbf
Low Temperature Flexibility, (°F), maximum	32°F (0°C)	32°F (0°C)
Dimensional Stability, % , maximum	<0.5%	1%
High Temperature Stability, (°F)	230°F (110°C)	230°F (110°C)
Water Absorption, %, maximum	pass	< 3.2%
Moisture Content, %, maximum	pass	< 1%
Initial Reflectivity, D2805	0.83	
Solar Reflectance, C1549	0.83	
Initial Emissivity, C1371	0.91	

Note: The emittance and reflectance values published are those required for Title 24 compliance as listed by CRRC. For certification or other reflectance and emittance code requirements, different calculations may be used resulting in different values. All DuraSTAR™ products meet LEED requirements.

All values given are approximate and are subject to change without notice. There is no implied or express warranty given through these values or statements, nor are there any assertions that the product purchased has been individually tested to conform to these standards. Testing is performed on a random basis by "in-house" and independent "third party" evaluation for the purpose of classification and or approval. Acceptance, purchase and selection of these products are the sole responsibility of the buyer or buyer's representative.

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