

## CCW Fire Resist Barritech NP/NP-LT Material Certification

This is to certify that Carlisle Coatings & Waterproofing CCW Fire Resist Barritech NP/NP-LT is a roller or spray applied synthetic rubber which cures to form a flexible, monolithic non-permeable air barrier membrane for use with concrete, masonry, insulation, steel, exterior sheathing, gypsum or wood wall construction and other substrates. CCW Fire Resist Barritech NP/NP-LT is Made in the USA.

Carlisle Coatings & Waterproofing manufactures CCW Fire Resist Barritech NP/NP-LT to comply with the following ASTM typical property values and meets the specification requirements:

Fire Resist Barritech NP - Property	Test Method	Typical Value
Color	–	Dark Blue
Application Temperature	–	<b>NP:</b> Min 40°F <b>NP-LT:</b> Min 25°F
Volume % Solids	–	<b>NP:</b> 54% <b>NP-LT:</b> 50%
Drying Time of 60 mil wet film at 73°F/50% RH	–	3 hr until tack-free 48 hr until fully dry
Coverage (Theoretical)	Percent solids calculation	<b>NP:</b> 22 SQ FT per GAL at 70 mils wet <b>NP-LT:</b> 20 SQ FT per GAL at 80 mils wet
Volatile Organic Content (VOC)	–	<10 g/L (.082 % wt)
Water Resistance of in-place membrane	<b>NP:</b> Rilem Tube – 70 wet mils on CMU AND AATCC 127, Modified 70 wet mils on CMU and DensGlass <b>NP-LT:</b> Rilem Tube – 80 wet mils on CMU AND AATCC 127, Modified 80 wet mils on CMU and DensGlass	No Water leakage through membrane
Air leakage resistance in-place membrane	ASTM E1166 Bubble Gun – <b>NP:</b> 70 wet mils on CMU with imbedded ties <b>NP-LT:</b> 80 wet mils on CMU with imbedded ties	No visible bubbling
Nail Sealability	ASTM D 1970	Pass
Water Vapor Permeance	ASTM E 96A ASTM E 96 B	0.05 perm 0.77 perm
Pull-Off Adhesion	ASTM D4541, modified 4" wood puck	>30 PSI on CMU and OSB >12 PSI on Gyp Sheathing (Facer Delamination from Gyp Core)
Surface Burning	ASTM E 84 <b>NP:</b> Product applied 70 mils wet, full coverage over gypsum sheathing <b>NP-LT:</b> Product applied 80 mils wet, full coverage over gypsum sheathing	Flame Spread Index 25, Smoke Generation Index 200
Elongation at Break	ASTM D 412	1,000%
Air Permeance (40 mil free film)	ASTM E 2178	0.001 L/s*m <sup>2</sup> @ 75 Pa
Air Permance (CMU)	ASTM E 2178	0.003 L/s*m <sup>2</sup> @ 75 Pa
Air Barrier Assembly Test	ASTM E 2357	0.037 L/s*m <sup>2</sup> @ 75 Pa
Low-Temp Flexibility	ASTM D 1970	No Cracking @ -200°F
Flexibility after UV Aging	180° bend over 1" mandrel	No Cracking
Aging/Long-Term Flexibility	CGSB 71-GB-24M	No Cracking
Low-Temp Crack Bridging	ASTM C 1305	No Cracking
Wall Assembly Burn Test	NFPA 285	Pass – Various wall assemblies with up to 3" of Polyiso or XPS Insulation. Consult CCW NFPA 285 White Paper for Assembly Details.

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