



Product Data Sheet BondCote 450 Series

Product Name: ***BondCote Nitrile Butadiene Polymer (NBP) Roofing Membrane***

Technical Data:

Manufacturer: BondCote Corporation
4090 Pepperell Way
Dublin, VA 24084
800-368-2160

Product Description:

Basic Use:

Roofing Membrane is a reinforced, thermoplastic single-ply roofing membrane which is designed to be mechanically attached through suitable insulation materials to various deck systems or fully adhered to suitable insulations mechanically attached to various decks in both new and retrofit applications. The membrane may also be installed loosely, with recommended perimeter and penetration attachment, and ballasted with round, washed, river bottom gravel or approved paver blocks at minimum weight of 10 PSF. All seams are to be hot air welded.

Limitations:

BondCote Roofing Membrane is subject to attack by coal tar bitumen, certain aliphatic and aromatic hydrocarbons and some solvents. Consult BondCote Roofing Systems (BCRS) for installation recommendations. Membrane must be stored in original protective packaging and kept dry prior to installation.

Composition and Materials:

BondCote Roofing Membrane is formulated from a fluxed blend of acrylonitrile butadiene rubber, synthetic thermoplastic resins, and other proprietary ingredients using a unique polyester reinforcing scrim.

PROPERTIES	TEST METHOD	450 SERIES
Thickness, in (nominal)	D 751	.045
Breaking Strength, lbf/in	D 751	
Warp		456
Fill		360
Elongation at Break, %	D 751	
Warp		32
Fill		36
Seam Strength, %	D 751	100
Retention of Properties After Heat Aging:	D 3045	
Break, % of original	D 751	95
Elongation, % of original	D 751	90
Tearing strength, lbf	D 751	
Warp		132
Fill		114
Low Temperature Bend	D 2136	PASS
Accelerated Weathering:	G 53	
Cracking		None
Crazing		None
Linear dimensional change, %	D 1204	
Warp		<0.5
Fill		0
Puncture Resistance, lbs	FS 101B	250
Static Puncture Resistance	D 5602	PASS
Dynamic Puncture Resistance	D 5635	PASS
Tensile Strength, psi	D 882	7000
Hydrostatic Resistance, psi	D 751	500
Hydrocarbon Resistance	C 20696C	
Oil Resistance		
Solar Reflectance using D&S Reflectometer ¹		.80
Emittance ²	E 408-71	.95
Solar Reflectance Index ³	E 1980	100.8

¹CRRC Method 1, July 2006

²ASTM E 408-71 Method A, October 2004

³ORNL SRI Calculator

Warranty: BondCote Roofing Systems Standard and Premium warranties cover materials and workmanship for a period of ten (10) years. Optional fifteen (15) year packages are available upon request. Issuance of warranty is subject to final inspection and approval by BondCote Roofing Systems Technical Representatives.

Maintenance: None routinely required. Consult BondCote Roofing Systems for recommended method for repairing mechanical damage or modifications of the roofing system at (800) 368-2160.

Technical Services: Technical and consulting services are available for design, installation and inspections. Technical bulletins, specifications, brochures and manuals are available upon request. Call the Technical Department at (800) 368-2160.

Locations: Manufacturing Plants located in Pulaski and Dublin, Virginia.

Website: www.bondcote.com