



Technical Data Sheet

NCFI Polyurethanes

Div. of Barnhardt Manufacturing Co.

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800-346-8229

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EnduraTech™ B (70-024)

BUTYL

DESCRIPTION:

EnduraTech™ B 70-024 is a copolymer butyl rubber elastomeric vapor barrier coating uniquely formulated for the protection of metal, aged BUR, wood, concrete, spray polyurethane foam and other substrates. Once cured, this liquid applied polymer provides an exceptionally durable, seamless, flexible waterproofing membrane that resists cracking through excellent elongation properties. As a result, it allows for thermal shock (normal expansion and contraction) that may take place within most structures. EnduraTech™ B 70-024 provides valuable UV protection and offers superb resistance to any moisture penetration.

RECOMMENDED USES:

EnduraTech™ B 70-024 is recommended as a protective vapor barrier coating to a wide variety of substrates, including metal roof decks, aged BUR surfaces, cap sheet, and selected primed single ply systems. This product has the ability to withstand ponding conditions (standing water beyond 48 hours) in low slope situations.

EnduraTech™ B 70-024 is also an ideal choice over spray polyurethane foam in specialized tank and cold storage applications where vapor drive is an issue. It also contains a strong rust inhibitor, eliminating the need for a primer coat over mildly rusted metal surfaces.

APPLICATION INSTRUCTIONS:

The suggested application process is AIRLESS SPRAY. It is recommended that EnduraTech™ B 70-024 be sprayed in multiple coats applied in multi-directional passes (north-south/east-west) to insure uniform film build and to avoid pinholing. Surface or substrate must be pressure washed, thoroughly cleaned, and completely dry prior to application. As a vapor barrier or retarder, EnduraTech™ B 70-024 is vapor sensitive. Any remaining moisture, including slight film not readily visible to the naked eye, may result in blistering of the coating shortly after application. Surface must also be free of loose particles or other foreign matter. Use Butyl Seam Tape (see separate data sheet) over larger cracks and seams.

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APPLICATION INSTRUCTIONS con'd:

Apply tape over crack or seam prior to application of EnduraTech™ B 70-024. Apply one or two coats of EnduraTech™ B 70-024 over tape the same day. After base coat is applied to substrate, the second coat may be applied the same day, depending on ambient temperature, relative humidity, amount of direct sunlight on surface and facility or project conditions. Some substrates may require the use EnduraTech™ N 70-022 Neoprene Primer to maximize the adhesion of EnduraTech™ B 70-024 Butyl to substrate. Contact our Technical Service Department to determine if primer is needed.

EnduraTech™ B 70-024 Butyl may be applied by heavy nap roller (1" or 1¼" nap) or soft brushes on smaller applications or situations. When applying by roller, apply at a rate of 2 gallons per 100 square feet PER COAT. Backrolling of material may be necessary to prevent pinholes. Final cured dry film thickness must be free of voids, pinholes AND porosity of surface. To achieve optimum product performance, a minimum of 25 dry mils (DFT) are required. Do not apply if rainfall is imminent the same day as application.

EnduraTech™ B 70-024 is not a breather coating and is not recommended for use of roof substrates or systems that require a breather coating. Additionally, extreme ambient and/or substrate temperatures are to be avoided as blistering may take place.

APPLICATION SHOULD BE SUSPENDED IMMEDIATELY AND OUR TECHNICAL SERVICE PERSONNEL CONTACTED IF THE RESULTS BEING OBTAINED ARE LESS THAN DESIRABLE.

SOME SEPARATION MAY OCCUR DURING SHIPMENT AND STORAGE. THE COATING MUST BE THOROUGHLY POWER MIXED FOR 3 TO 5 MINUTES PRIOR TO USE. DO NOT THIN PRODUCT!

LIMITATIONS AND PRECAUTIONS:

WARNING: This product contains VM & P Naphtha and Xylene. KEEP AWAY FROM HEAT, OPEN FLAME OR SPARKS. USE ONLY IN WELL VENTILATED AREAS WITH PROPER PROTECTIVE EQUIPMENT. Avoid breathing vapor or mist. Approved (MESA/NIOSH) chemical respirator and protective clothing must be worn by applicator and personnel in vicinity of the application process. Provide mechanical exhaust ventilation in enclosed areas. Positive pressure fresh air hose masks are required for interior applications

Freight Classification:
Paint-flammable liquid
UN 1263 (red label required)

Infotrac Emergency Number:
(800) 535-5053

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TECHNICAL DATA:

Properties	Typical Value	Test Method
Solids by Weight	45% ± 3%	
Solids by Volume	40% ± 3%	
Weight per Gallon	7.0 lbs	
Flash Point	68°F	
Clean-up Solvent	Xylene or Mineral Spirits	
Shelf Life	12 mos @ 40°F - 90°F	
Color	White	
Service Temp	-50°F – 200°F	
VOC Content	517 grams/liter	
Viscosity	2,000 – 2,500 cps	Brookfield Scale
Elongation	900% ± 100%	ASTM D412
Impact Resistance	Exceeds 160 ft-lb/in	ASTM D624
Hardness	45 Shore A	
Tensile Strength	1000 ± 100 psi	ASTM D412
Permeability	0.18 perms @ 25 mils DFT	ASTM E96
Elastic Recovery	100%	ASTM D412
Cure Times	4 hrs to touch; 8 hrs tack free; 4-10 hrs recoat	

The information on our data sheets is to assist customers in determining whether our products are suitable for their applications. The customers must satisfy themselves as to the suitability for specific cases. NCFI Polyurethanes warrants only that the material shall meet its specifications; this warranty is in lieu of all other written or unwritten, expressed or implied warranties and NCFI Polyurethanes expressly disclaims any warranty of merchantability, fitness for a particular purpose, or freedom from patent infringement. Accordingly, buyer assumes all risks whatsoever as to the use of the material. Buyer's exclusive remedy as to any breach of warranty, negligence or other claim shall be limited to the purchase price of the material. Failure to adhere strictly to any recommended procedures shall relieve NCFI Polyurethanes of all liability with respect to the material or the use thereof.