



Technical Data Sheet

NCFI Polyurethanes

Div. of Barnhardt Manufacturing Co.

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EnduraTech™ R (70-012)

ACRYLIC ELASTOMERIC COATING

DESCRIPTION:

Enduratech R (70-012) is a durable 100% acrylic elastomeric coating designed specifically for use over new spray polyurethane foam (SPF) roofing systems, or for recoating existing SPF roofing systems.

DISTINGUISHING CHARACTERISTICS:

- Superior resistance to ultraviolet degradation
- Excellent adhesion to SPF
- Good low temperature flexibility down to -15°F
- Low toxicity and odor
- Retains high reflectivity because of excellent dirt pickup resistance, reduces substrate temperatures, prolongs roof life, and reduces interior temperatures and energy costs.
- Meets the requirements of ASTM D-6083

TYPICAL PHYSICAL PROPERTIES:

<u>Properties</u>	<u>Typical Values</u>
Solids by Weight	68%
Solids by Volume	58%
Weight per Gallon	11.8 lbs.
Viscosity	6500-8500 cps
Coverage, Dry	9.5 mils/100 ft ² /gal.
Coverage, Wet	16 mils/100 ft ² /gal.
Clean-up	Water
Re-coat Time	2-8 hours

PERFORMANCE PROPERTIES:

<u>Properties</u>	<u>Test Method</u>	<u>Typical Values</u>
Elongation	ASTM D-2370	210%
Tensile Strength	ASTM D-2370	350 psi
Low Temperature Flexibility	ASTM D-522	Passes ½" mandrel bend
Permeance @ 20 mils	ASTM D-1653	7.03
Tear Resistance	ASTM D-624	63 pli
Adhesion	ASTM D-794/D-603	3.4 pli
Hardness, Shore A	ASTM D-2240	55-65
Accelerated Weathering, 1000 hours	ASTM D-4798	No cracking, fading, or checking
Water Swelling	ASTM D-471	5.14%
Solar Reflectance	ASTM C-1549	85.8%
Thermal Emittance	ASTM C-1371	0.88

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RATINGS AND APPROVALS:

<u>Organization</u>	<u>Test Method</u>	<u>Rating or Evaluation</u>
Underwriters Laboratories	UL-790	Class A (NC) (C-15/32) Class B (C-15/32)
Underwriters Laboratories	UL-1256	Class 90
Underwriters Laboratories	UL-580	165 psf
Underwriters Laboratories	UL-2218	Class 1
ICC Evaluation Services	Legacy Report	ER-5979

INSTALLATION:

- May be applied by spray or heavy nap roller. However, airless spray is recommended for consistency.
- All surfaces must be clean, dry, and free of dirt, grease, oil, and other contaminants that would interfere with proper adhesion.
- Apply in two separate coats at the minimum rate of one gallon per 100 square feet.
- Apply at temperatures above 50°F.
- Apply only when Weather conditions will permit coating to dry before rain, dew, or freezing temperatures occur.
- For details, see Coating Specification Guide.

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.