

**PRODUCT DESCRIPTION**

**NSF Polymers R Max HFO** is a two-component, one-to-one by volume spray-applied polyurethane foam. NSF R Max HFO is a medium density spray foam designed to provide good thermal performance and a significant controller of air infiltration in an air barrier assembly. NSF R Max HFO is low GWP and zero ODP.



**TYPICAL PHYSICAL PROPERTIES**

PROPERTY	VALUE	TEST METHOD
AIR PERMEANCE	<0.02	ASTM E 2178
CORE DENSITY (PCF)	1.9	ASTM D 1622
DIMENSIONAL STABILITY %	<9.3	ASTM D 2126
DIMENSIONAL STABILITY %	<7.66	ASTM D 2126
OPEN-CELL CONTENT %	<5	ASTM D 6226
R-VALUE @ 1"	7.5	ASTM C 518
R-VALUE @ 3.5"	24	ASTM C 518
RE-ENTRY PERIOD W/10 ACH RE-	1 Hour	ASTM D8445-22A
SURFACE BURNING	Class-1	ASTM E 84
TENSILE STRENGTH (PSI)	46.9	ASTM D 1623
COMPRESSIVE STRENGTH (PSI)	32.2	ASTM D 1621
VISCOSITY-ISO AT 77F (CPS)	200	
VISCOSITY-RESIN AT 77F (CP)	700	
WATER VAPOR PERMEANCE	1.77 Perms at 1"	ASTM 96

**APPLICATION PARAMETERS**

AMBIENT TEMPERATURE	20° - 120°
MAXIMUM LIFT PER PASS	Not to exceed 3.5"
MOISTURE CONTENT OF SUBSTRATE	Less than 19%
STORAGE TEMPERATURE	60° - 80°
SUBSTRATE TEMPERATURE	30° - 120°

**EQUIPMENT SETTINGS**

FLUID PRESSURE - DYNAMIC	1100 - 1400 psi
HOSE HEAT	110° - 130°
PRE-HEATER: (A) COMPONENT - ISO	120° - 140°
PRE-HEATER: (B) COMPONENT - RESIN	120° - 140°
MIXING RATIO	1:1 By Volume
RECOMMENDED MIX CHAMBER SIZE	10-15 lbs./minute (i.e. 01-Graco AR4242)
Shelf Life	6 Months

\*The values represented in the Equipment Settings chart provides initial optimum settings. Actual operating ranges will vary as ambient air; humidity, moisture, and substrate temperatures vary. Extreme conditions will affect the yield, adhesion and cured physical properties of the foam. Applicator must make adjustments as conditions vary.

**FIRE PERFORMANCE CHARACTERISTICS**

**BURN CHARACTERISTICS**

PROPERTY	VALUE	TEST METHOD
FLAME SPREAD INDEX	≤ 25	ASTM E 84
SMOKE DEVELOPMENT	≤ 450	ASTM E 84

**UNVENTED ATTIC ASSEMBLIES**

LOCATION	MAX THICKNESS	MIN THICKNESS
ROOF DECK	18"	3"
ATTIC WALL	18"	3"

**IGNITION BARRIER AC377X**

Complies with the applicable requirements of AC377 Appendix X for use in attics and crawl spaces without a prescriptive ignition barrier

**THERMAL BARRIER NFPA286**

TYPE	WET FILM THICKNESS (WFT)	WALL	CEILING
DC315	Minimum 14 mils	Maximum 7.5"	Maximum 9.5"
Flame Control 60-60A	Minimum 14 mils	Maximum 7.5"	Maximum 9.5"
No Burn XD/Plus THB	Minimum 14 mils		

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