

THERMAL INSULATION AND AIR BARRIER
 ER-842 CCRR-0371 | CSI Section: 07 21 00

PRODUCT DESCRIPTION

Accufoam AF1 is a two-component, one-by-one-by-volume spray-applied polyurethane foam. Accufoam AF1 is a high-yield, low-density, no-mix, spray-applied insulation foam, which contains zero ozone-depleting blowing agents and is designed to provide good thermal performance and a significant control of air infiltration of an air-barrier assembly. Accufoam AF1 is 100% water blown.



PRODUCT DATA

PROPERTY	TEST METHOD	VALUE
R-VALUE @ 1"	ASTM C 518	3.7
R-VALUE @ 3.5"	ASTM C 518	13
CORE DENSITY %	ASTM D 1622	0.40-0.45
OPEN-CELL CONTENT %	ASTM D 6226	>90
DIMENSIONAL STABILITY %	ASTM D 2126	<9.3
TENSILE STRENGTH (PSI)	ASTM D 1623	4.2
AIR PERMEANCE	ASTM E 2178	<0.02
SOUND TRANSMISSION CLASS	ASTM E 90	38
NOISE REDUCTION COEFFICIENT	ASTM C 423	0.55
SURFACE BURNING CHARACTERISTICS	ASTM E 84	Class-1
RE-ENTRY PERIOD W/10 ACH	ASTM D8445-22A	1 Hour
RE-OCCUPANCY PERIOD W/10 ACH	ASTM D8445-22A	1 Hour
VISCOSITY-ISO AT 77F (CPS)		200
VISCOSITY-RESIN AT 77F (CPS)		320

BURN CHARACTERISTICS

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

IGNITION BARRIER AC377X

TYPE	WFT	WALL	CEILING
DC315	4 MIL MIN	8 INCH MAX	14 INCH MAX
FS-IB	6 MIL MIN	10 INCH MAX	15 INCH MAX
No Burn Plus XD / Plus ThB	6 MIL MIN	10 INCH MAX	14 INCH MAX

THERMAL BARRIER NFPA286

TYPE	WFT	WALL	CEILING
DC315	18 MIL MIN	10 INCH MAX	12 INCH MAX

UNVENTED ATTIC ASSEMBLIES CCRR 0354

LOCATION	MAX THICKNESS (IN.)	MIN THICKNESS (IN.)
ROOF DECK	18"	3"
ATTIC WALL	18"	3"

*Consult with Creative Polymer Solutions Technical Department for Unvented Attic Guide drawings and specifications.

APPLICATION PARAMETERS

STORAGE TEMPERATURE	60° – 90°
AMBIENT TEMPERATURE	30° – 120°
SUBSTRATE TEMPERATURE	30° – 120°
IN SERVICE TEMPERATURE	207.5°
MOISTURE CONTENT OF SUBSTRATE	Less than 19%
MAXIMUM LIFT PER PASS	Not to exceed 8"

EQUIPMENT SETTINGS

PRE-HEATER: (A) COMPONENT – ISO	120° – 140°
PRE-HEATER: (B) COMPONENT – RESIN	120° – 140°
HOSE HEAT	120° – 140°
FLUID PRESSURE – DYNAMIC	1100 – 1400 psi
MIXING RATIO	1:1 by Volume
RECOMMENDED MIX CHAMBER SIZE	10-15 lbs./minute (i.e. 01-Graco AR4242)
STORAGE STABILITY	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.

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