

THERMAL INSULATION AND AIR BARRIER
 ER-842 | ESR-5255 | CCRR-0487 | 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 (PCF)	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
Flame Control 60/60A	16 MIL MIN	10 INCH MAX	14 INCH MAX

UNVENTED ATTIC ASSEMBLIES CCRR 0487

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 6"

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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