TECHNICAL DATA SHEET

AP 110 (OC) Open Cell SPF System

Product Description:

AP 110 (OC) is a spray-applied, two-component, open cell spray polyurethane foam (SPF) system. The product is formed by the chemical reaction of mixing the proprietary resin, B-Component with the Isocyanate A-Component at a 1:1 mixing ratio.

AP 110 (OC) open cell SPF system is spray-applied to fill voids and seal cracks as it expands to form a seamless thermal envelope and can adhere to a wide range of substrates typically found in building construction.

Product Uses:

•Interior Applications • Walls •Ceilings •Attics •Ducts

Physical Properties:

Property	Test Method	Value
Density	ASTM D1622	0.5 lbs./ft³ (nominal)
R-Value	ASTM C518	3.8 @ 1"
Tensile Strength	ASTM 1623	5.19 psi
Air Permeance @ 3.5"	ASTM E283	<0.02 L/sm²
Open Cell Content	ASTM D6226	>97%
Water Vapor Transmission	ASTM E96	21 perm @ 1"
Dimensional Stability	ASTM D2126	>5%
Re-Entry / Re-Occupancy.	ASTM D8445	1- Hour @ 10ACH / 2-Hours @ 10ACH
Noise Reduction	ASTM C423	0.1

Fire Test Data:

Property	Test Method	Results
Smoke Development	ASTM E84	Class I < 400
Ignition Barrier	NFPA 286 / App X	4 WFT - 3 DFT / DC 315
Thermal Barrier	NFPA 286	15 min - 20 mils WTF - DC 315
Flame Spread	ASTM E84	Class 1 < 20
Unvented Attics		No Ignition Barrier in Specific Unvented Attic Assemblies. Refer to IAPMO

Liquid Component Properties:

Property	AP ISO A-side ISO	AP 110 (OC) B-side Resin
Mixing Ratio	100:100	100:100
Viscosity @ 77°F	150 -250 cps	150 -250 cps
Specific Gravity	1.24kg/L sg	1.15kg/L sg

Processing Parameters:

Primary A-side Heater	115-140°F
Primary B-side Heater	115-140°F
Hose Temperature	115-140°F
Recirculating Temperature	80-90°F
Processing Pressure	1000 – 1500 psi
Moisture of Wood Substrate	≤19%

Storage and Shelf Life:

Property	AP ISO A-side ISO	AP 110 (OC) B-side Resin
Storage Temperature	50 - 80°F	50 - 80°F
Shelf Life	12 months / 1 year	6 months

Fire Safety:

AP 110 (OC) Open Cell SPF System should not be used near open flames or sparks. Warning signs should be posted whenever hot work is done, such as welding, cutting with torches, soldering, etc. All hot work should be performed no less than 35 feet from any exposed spray foam. If hot work must be performed, all spray foam should be covered with an appropriate welders or fire blanket. In addition, a fire watch should be provided. For more information follow API Fire Safety Guidelines for Use of Rigid Polyurethane and Polyisocyanurate Foam Insulation in Building Construction (AX230).

Safety and Handling:

It is critical to read and become familiar with the Safety Data Sheets (SDS') prior to working with AC 110 (OC) Open Cell SPF System. To obtain copies of the SDS, visit alphapolymersllc.com.