



P2-030 Low Density Rigid Pour-in-Place Foam System

Technical Data Sheet

P2-030 is a two-component, water blown, all PMDI-based, nominal 4 pcf density, polyurethane foam system designed for undersealing and void filling when minimal lift is required under concrete slab sections. The slow speed reactivity profile allows for excellent flow characteristics when used as an undersealing and void fill material. P2-030 is formulated to be machine processed using applicable plural component polyurethane processing equipment.

Typical Properties of Components

Component	P2-030	A2-000
Appearance	Transparent amber liquid	Transparent brown liquid
Brookfield Viscosity @ 50 rpm	700 cps at 72°F	200 cps at 72°F
Specific Gravity	1.07	1.24
Storage Temperature	40°F – 90°F	40°F – 90°F
Shelf Life	6 months	6 months

Mix Ratio, 108 Index

By weight.....100 parts poly : 116 parts iso
 By volume.....100 parts poly : 100 parts iso

Typical Properties of Mixed System

	Hand-mixed at 72° F	Equipment mixed w heat & pressure
Cream Time	18 seconds	4 seconds
Gel Time	180 seconds	50 seconds
Tack Free Time	280 seconds	75 seconds
Rise Time	360 seconds	110 seconds
Free Rise Core Density	4.0 pcf	3.2 - 3.5 pcf

Process Parameters

Iso Temperature	100°F to 130°F
Poly Temperature	100°F to 130°F
Mixing Pressure	Minimum 1000 static, 800 dynamic psi

Typical Foam Physical Properties

In-place Density (nominal), pcf	4	5	ASTM D 1622
Compressive Strength, parallel, psi	67	100	ASTM D 1621
Compressive Modulus of Elasticity, psi	1650	2100	ASTM D 1621
Tensile Strength, parallel, psi	82	124	ASTM D 1623
Shear Strength, parallel, psi	46	68	ASTM C 273
k-Factor, BTU-in/hr.sq.ft.° F, aged	0.22		ASTM C 518
Closed Cell Content	> 95%		NCFITM 300
Water Absorption, lbs/sq.ft.	≤ 0.06		ASTM D 2842
Resistance to Solvents	Excellent		
Resistance to mold and Mildew	Excellent		
Maximum Service Temperature	200° F		

Storage and Handling

Store the resin from 40°F to 90°F. Avoid moisture contamination during storage, handling, and processing. For both components, pad containers and day tanks with either nitrogen or dry air (desiccant cartridge or air dryer @ -40°F dew point). For optimum shelf life, the recommended storage temperature for isocyanate is 40°F to 90°F. **Do not expose isocyanate to lower temperatures – freezing may occur.** Shelf life is 6 months for factory sealed containers.

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