

SUF-FIX 277 HFO CLOSE CELL SPRAY FOAM

1 DESCRIPTION OF THE PRODUCT

SUF-FIX 277 PU system is designed for spray application of polyurethane foam. The material must be applied with a high-pressure plural component spray polyurethane machine. Resulting foam has excellent physical properties and is classified according to DIN 4102 B2 norm. The foam stability and adhesion to the application surface is excellent. The applied foam density is medium but it can vary according to the numbers of layers and their thickness, atmospheric conditions and type of application (vertical or horizontal). To get a good foam adhesion the surface to be dry, not at too low temperature, cleaned from oil and dust etc. Intended end use in pipeline support, Trench breaker/plug or other general void fill applications requiring fast reactivity. Also, reaction profiles suitable for over the floor, on wall and under the ceiling. SUF-FIX 277 contains ecological blowing agent; HFO, that do not damage the ozone layer (ODP:0).

2 PHYSICAL PROPERTIES

	Unit	SUF-FIX 277 Polyol Blend	SUF-FIX PMDI Isocyanate	Test Method
OH Value	mgKOH/g	280-300		ASTM D 4274
NCO Content	%		30-31	ASTM D 5155
Viscosity (25 °C)	mPa.s	350-450	220-250	ASTM D 4878
Specific Gravity (20°C)	g/ml	1,12	1,23	ASTM D 891

3 RECOMMENDED RATIOS FOR APPLICATIONS

	Weight ratio (w/w)	Volumetric ratio (v/v)
SUF-FIX 277 (Polyol Blend)	100	100
SUF-FIX PMDI (Isocyanate)	109	100

4 REACTION CHARACTERISTICS

	Unit	Machine mix	Test Method
Cream time	sec	3-5	SUF-FIX Internal methods
Gel time	sec.	4-8	SUF-FIX Internal methods
Free rise density	kg/m ³	30-32	SUF-FIX Internal methods

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05 CURED SYSTEM FOAM PROPERTIES

Property	Unit	Values	Method
* Core density	kg/m ³	34,6	Internal SUF-FIX method
* Overall Applied Density	kg/m ³	36,2	Internal SUF-FIX method
Dimensional Stability (linear)			
48 hour at -30 °C	%	<1,0	ASTM D-2126
48 hour at 70 °C	%	<1,3	ASTM D-2126
48 hour at 70 °C & 95% humidity	%	<1,5	ASTM D-2126
Compressive Strength (%10)	kPa	310	TS EN 826
Closed Cells	%	>95	ASTM D-2856
Flammability Class	B2		DIN 4102-1
R-Value (1")		7,21	ASTM C 518
R-Value (3,5")		25,24	ASTM C 518

6 Process Conditions

	Unit	SUF-FIX 277 Polyol Blend	SUF-FIX 277 PMDI Isocyanate
Materials Temperature	°C	20-25	20-25
Hoses Temperature	°C	35-45	35-45
Pressure	bar	100-130	100-130

7 SHELF LIFE AND STORAGE

	Unit	SUF-FIX 277 Polyol Blend	SUF-FIX PMDI Isocyanate
Storage Temperature	°C	15-25	15-25
Shelf Life (*)	Months	6	12

* Stored in original sealed drums in a dry place at recommended temperatures.

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8 SAFETY CONSIDERATIONS

The SUF-FIX 277 system does not present a significant health hazard. Usual precautions for handling industrial products should be observed, avoid eyes and skin contact and ingestion.

9 IMPORTANT

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use.