

## SPRAY SP 40/4

## Provisional Product Information

### Description

Spray SP 40/4 is a formulated system for the production of R 141b blown Rigid Polyurethane Foam. Spray SP 40/4 is suitable for the insulation of roofs, sheds, bays and farms, storage tanks and pipes through spraying process. The foam is flame retarded and classified B3 as per DIN 4102. R 141b blowing agent is already mixed with Polyol.

Properties		Polyrex® SP 40/4 POLYOL	Isorex® R 310/1 MDI-ISOCYANATE
Viscosity at 20 °C	mPa.s	450 - 550	180 - 270
Specific Gravity at 20 °C		1.16	1.17
Storage Temperature	°C	10 - 25	10 - 25
Stability	months	6	6

### Recommended Formulation

Polyrex	SP 30/4	100	p.b.v
Isorex	R 310/1	100	p.b.v

### Processing Conditions

Material Temperature	20 - 22	°C
Mixing Ratio Polyol / Iso	100/100	p.b.v
Surface Temperature	35 - 45	°C
Final Density	48-50	Kg/m <sup>3</sup>

### Lab Reactivity Profile at 10 °C

Cream Time	6 - 8	Sec
Gel Time	15 - 18	Sec
Rise Time	17 - 20	Sec
Free Rise Density	40 - 42	Kg/m <sup>3</sup>

### Packaging

220 Kg net Polyrex

250 Kg net Isorex

*Disclaimer: The technical information contained in this data sheet refers to samples made in the laboratory. Baalbaki is not responsible for the application or processing of the material since its proper use is beyond Baalbaki's control. (Edition No. 2009 -1-1, Date: January, 2009)*

*Isorex ® and Polyrex ® are registered trade names for Baalbaki Group / Polyurethanes Business Unit*

**SPRAY SP 40/4****Provisional Product Information****Physical Properties**

Final Density	48-50	Kg/m <sup>3</sup>	DIN 53420
Compression Strength @ 10 % Deformation			
Parallel to foam rise	0.16-0.21	N/mm <sup>2</sup>	ASTM C 165
perpendicular to foam rise	0.12-0.15	N/mm <sup>2</sup>	ASTM C 165
Dimensional Stability ( Volume change)			
@ -20 °C	< 1	% Volume	DIN 53431
@ +70 °C	< 1	% Volume	DIN 53431
Closed Cell Content	> 93	%	ASTM 2856
Thermal Conductivity(Initial Lambda)	0.021	W/m <sup>2</sup> K	DIN 52616
Fire Behavior	B3	Class	DIN 4102

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