Product	EKOSPRAY® HFO	Edition 2
name	EKUSPKAT HFU	04.2020

CE-certified sprayed PU foam Thermal insulation for buildings DOP available, ekospray@bangbonsomer.com



## **Product description**

Developed for	The thermal insulation of walls and attics with conventional spray machinery. Fully formulated polyol blend for spray application of closed cell rigid polyurethane foam
Polyol	Mixture of polyether polyols, flame retardants, activators, stabilizers, physical blowing agent HFO 1233zd
Isocyanate	Product based on Diphenylmethanediisocyanate (MDI)

## **Typical properties**

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			Polyol	Isoc	yanate
Liquid	Density 25°C	g/cm³	ca. 1,19	ca.	1,23
properties					
	Viscosity 25°C	mPas	ca. 400	ca.	200
Formulation	Polyol	EKOSPRAY® HFO	100 Parts	•	
	Isocyanate	EKOSPRAY® ISO	100 Parts	by volui	me
Quality control	Material temp	erature		20	°C
Cup test	Cup weight				
	Polyol			30	g
	Isocya	nate		31	g
	<u>Parameter</u>				
	Cream	time	ca.	4	sec
	Gel tin	ne	ca.		sec
	Free ri	se cup density	ca.	37	kg/m³
Physical	Core density		EN ISO 845	35	kg/m³
properties	Closed cell cor	ntent	ISO 4590	96	%
(typical)	Compressive s	trength	EN ISO 844	240	kPa
	Reaction to fire	e	EN 13501-1	Ε	class
			DIN 4102-1	B2	class
	Thermal condu	uctivity	Initial at 10°C	0.021	W/m*K

# PRODUCT DATA SHEET

**B&B** Delivering smart material technologies

Product name

# **EKOSPRAY® HFO**

Edition 2 04.2020

#### **Usage instruction**

Processing	To be used with a two-component high pressure-dosing machine, mix ratio 1:1 by volume  Machine and hoses should be heated at 40-60 °C. Pressure at pump min. 65 bar. Pressure difference between A and B component not more than 15 bars.
Surface	All substances that have a negative influence on foam quality or the
treatment	adhesion like oil, grease or water have to be removed. Surfaces that provide low adhesion to the foam have to be treated with an adhesion promoter. The clean and dry surface should have a temperature of not less than 10°C. Lower temperatures or wet substrate surfaces may cause irregular cell size, poor dimensional stability and adhesion
Application of foam	Apply multiple individual layers of not more than 50mm to get the desired thickness. Between the consecutive layers allow for sufficient curing.
Safety	Wear appropriate protective clothing preferably with a self-contained breathing apparatus Please pay attention to the safety data sheet, it contains handling information.
	It is advisable to avoid direct skin contact with freshly produced polyurethane, because of the fact that in case of not covered polyurethane the surface may obtain traces of starting and successive products which are e.g. dangerous to health or have irritating, cauterizing and/or sensitizing properties.

# Storage, packaging and supplying

Storage	The packaging must be closed very well. This product is very sensible to	
	moisture.	
	The storage temperature is recommended at 25°C. Polyol should not be	
	stored below 15°C and the isocyanate not below 20°C.	
	The storage life is guaranteed for 6 months.	
Packaging and		
Supplying	All products can be delivered in road tanker, IBC and drums.	

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B&B Delivering smart material technologies

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## Changing to the last edition

Changing	04.2020
First edition	05.2019

#### Disclaimer

	The product information is made to the best of our believe, they are however not obligatory. This concerns also to trade mark rights of third parties. The product information mentioned above have to be proved additionally by an individual test of our products regarding the application for the intended processing of our purpose. The processing of our products and the products manufactured by the customer according to our technical support are out of our controlling possibilities and therefore subject to the responsibility of the customer.
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