Quality insulation
with a personal touch

TECHNICAL DATASHEET
NESTAAN® POLYURETHANE SYSTEMS

NESTAAN® PN013/80

Components	A-Component: NESTAAN® POLY PN013/80 B-Component: NESTAAN® ISO 30
Material description	Waterblown 2 component PU pour foam system.
Application	NESTAAN® PN013/80 is a water blown two component PUR pour system with low odor.
Application areas	High density moulded pieces such as pipe sections, decorative- and technical parts.

Product properties			
	A-Component	**B-Component**	**Unit**
Appearance	Yellowish liquid	Dark brown liquid	
Specific mass 20°C	1060 – 1080	1210 – 1250	g/l
Viscosity 20°C	900 – 1300	150 - 250	mPa.s
Mixing ratio Parts by weight Parts by volume	 100 100	 114 – 116 100	

Typical foaming properties (handmix, 20°C, 3000 rpm)			
		Value	**Unit**
Reactivity	Cream time (CT) Gel time (GT)	30 ± 3 103 ± 10	s s
Density	Core density Cup density	80 ± 8 90 ± 10	kg/m³ kg/m³

Packaging	
NESTAAN® POLY PN013/80 can be supplied in	
Plastic cans	25 kg nett
Metal drums	50 or 210 kg nett
IBC's	1050 kg nett
Bulk	21000 kg nett
NESTAAN® ISO 30 can be supplied in	
Plastic cans	30 kg nett
Metal drums	60 of 250 kg nett
IBC's	1250 kg nett
Bulk	23000 kg

Shelf life and storage			
	A-Component	**B-Component**	**Unit**
Storage temperature	5 - 30	5 - 30	°C
Shelf life (in closed, sealed packaging)	3	6	months

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Processing

NESTAAN® PN013/80 can be processed using most available dispensing units. To ensure a good skin formation it is advised to use a mould temperature of at least 45°C.
The demoulding time of the realized pieces is approximately 2 minutes per cm thickness, this should be confirmed by production trials.

Typical foam properties

	Value	Unit	Method
Applied density	80 – 200	kg/m³	EN 1602
Compressive strength	> 700	kPa	EN 826
Water absorption	< 0,3	kg/m²	EN 1609
Thermal conductivity	< 0,027	W/m.K	EN 12667
Closed cell content	> 90	%	ISO 4590
Dimensional stability -20°C +70°C/90% RH	 < 1 < 5	%	EN 1604
Fire behavior	B3 < 125 F	-- mm --	DIN4102,t.1 ISO 3582 EN 13501

Remarks

All our products must be processed by competent persons. In case of doubt you must contact us. The fire risk must be taken into account when processing polyurethane. All necessary measures must be taken to prevent firing. Suitable fire extinguishers must also be present in the immediate vicinity.

Our recommendations with regard to technical application, whether verbal, in writing or by means of tests have been drawn up to the best of our knowledge and understanding, but are intended as indicative only, also in relation to any third party entitlements. They do not discharge you of your obligation to check products delivered by us for their suitability for the intended procedures and purposes.

The application, use and processing of the products are beyond our control and you are fully responsible. Nestaan accepts no liability for damages resulting from the use of our products, including damages suffered by third parties and consequential damages. Please refer to the stipulations on the limitation of liability in our General Terms and Conditions.

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