Quality insulation
with a personal touch

TECHNICAL DATASHEET
NESTAAN® POLYURETHANE SYSTEMS

NESTAAN® PN013/110

Components	A-Component: NESTAAN® POLY PN013/110 B-Component: NESTAAN® ISO 30
Material description	Waterblown 2 component PU pour foam system.
Application	NESTAAN® PN013/110 is a water blown two component PUR pour system with low odor.
Application areas	High density moulded pieces such as pipe sections, wood imitation, 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	1000 – 1200	150 - 250	mPa.s
Mixing ratio			
Parts by weight	100	115	
Parts by volume	100	100	

Typical foaming properties (handmix, 20°C, 3000 rpm)			
		Value	**Unit**
Reactivity	Cream time (CT) Gel time (GT)	30 ± 3 100 ± 10	s s
Density	Core density	110 ± 11	kg/m³

Packaging	
NESTAAN® POLY PN013/110 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	10 - 25	5 - 30	°C
Shelf life (in closed, sealed packaging)	3	6	months

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Processing

NESTAAN® PN013/110 can be used for all kinds of applications where an excellent flow is demanded. The system shows a good adhesion to most common facing materials, but the temperature of all parts in contact with the reacting foam should be at least 25°C to prevent delaminating of the foam. Some facing materials, like aluminum or stainless steel, should be grinded or treated with a suitable primer first. In case of doubt the adhesion should be tested in advance.
Typical demould times, depending on equipment and temperatures, are approximately 3 minutes per cm thickness, this should be confirmed by production trials. When large volumes have to be filled, extra attention should be paid to the exothermic reaction, which occurs in all polyurethane foam reactions. Sufficient cooling period should be introduced before applying the next batch.
Operating temperatures for applied material: -50°C to +90°C.

Typical foam properties

	Value	Unit	Method
Applied density	150 – 200	kg/m³	EN 1602
Compressive strength	> 1000	kPa	EN 826
Water absorption	< 2	kg/m²	EN 1609
Thermal conductivity	< 0,035	W/m.K	EN 12667
Closed cell content	> 90	%	ISO 4590
Dimensional stability -20°C +70°C/90% RH	 <2 / <0,5 <5 / <1	 %	 EN 1604
Fire behavior	B3 < 125 F	-- mm --	DIN4102,t.1 ISO 3582 EN 13501

Remarks

Our recommendations with regard to technical applications, whether verbal, written or through means of testing, are provided to the best of our knowledge. However, they only count as non-committal guidelines, also applicable to the possible protective rights of third parties. They do not dismiss you of the obligation to check the products supplied by us on their suitability for the intended applications or purposes.

Application, usage and processing of the products happen outside of our control possibilities and therefore are your own responsibility. Nestaan does not accept any liability for damage caused by the application of our products (damage by third parties and possible consequential damages included). In case a court should conclude liability, the damage of all claims is limited only to the value of the goods that we supplied to you in relation to the damage causing project.

The above according to mentioned criteria in our general sales and delivery terms.

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