



Quality insulation
with a personal touch



TECHNICAL DATASHEET NESTAAN® POLYURETHANE SYSTEMS



ARVENOL® P-10

Components	A-Component: ARVENOL® P-10 B-Component: NESTAAN® ISO 30
Material description	2 component bio-based water blown open cell PU foam system with low density.
Application	ARVENOL® P-10 is a bio-based water blown two component PUR pouring system, to be used cavity wall insulation material.
Application areas	Cavity wall insulation.

Product properties

	A-Component	B-Component	Unit
Appearance	Milky white liquid	Dark brown liquid	
Specific mass 20°C	1030 - 1070	1210 - 1250	g/l
Viscosity 20°C	600 - 800	150 - 250	mPa.s
Mixing ratio			
Parts by weight	100	117 - 119	
Parts by volume	100	100	

Typical foaming properties (handmix, 20°C, 3000 rpm)

		Value	Unit
Reactivity	Cream time (CT)	20 ± 2	s
	Gel time (GT)	110 ± 10	s
Density	Core density	10 ± 2	kg/m ³
	Cup density	15 ± 3	kg/m ³

Packaging

ARVENOL® P-10 can be supplied in	
Plastic cans	25 kg nett
Metal drums (yellow)	50 of 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
Remarks	Mix well before use	Ready to use	



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Processing

Due to its high reactivity, this system (exothermic reaction) can only be processed by suitable 2 component pouring machines that were especially designed for this purpose. These machines are equipped with constant heating of the raw materials and hoses to the gun. The heating must be able to heat both components during application to 30°C–50°C. The mixing ratio should always be 100:100 parts by volume.

The A-component should be mixed thoroughly before use. To get a perfect mixing, the pressure of both A- and B-component should be at least 40 bar at the gun. Generally, this can be realized when the pressure of both components in the machine is about 65 bar during dispensing. Pressure loss due to length and diameter of the hoses and the type of mixing chamber, should always be taken into account (could reach 30 bar). A pressure difference between A- and B-component should not exceed 15 bar.

Good mixing of both components in the right ratio is essential to obtain the optimal foam properties.

Typical foam properties

	Value	Unit	Method
Applied density	> 7	kg/m ³	EN 1602
Thermal conductivity (10°C)	< 0,039	W/m.K	EN 12667
Water absorption	≤ 2,5	kg/m ²	EN 1609
Closed cell content	< 20	%	ISO 4590
Reaction to fire	E	--	EN 13501-1

Measured on actual production samples, they are not a sales specification

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.

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