Technical Information No 17/2023

DoP no 35-CPR305-2023

Version: 2.0 EN

Date of issue: 17.05.2023

Purios HR/01

GENERAL INFORMATION

Purios HR/01 is two component system for producing rigid polyurethane foam. It contains a new generation foaming agent with a ODP ozone depleting potential of 0 and a low global warming potential of GWP, which provides exceptional energy efficiency while reducing the negative impact on the environment.

PRODUCT CHARACTERISTIC			
	Component A	Component B	Standard
Viscosity 25°C [mPas]	400 – 750	150 – 250	WL/3/PURINOVA
Density 25°C [g/cm^3]	1.10 – 1.20	1.22 – 1.24	WL/8/PURINOVA
Mixing ratio (by volume)	100	100	
FOAMING CHARACTERISTIC			
Start time [s]	4 – 6		
Gelation time [s]	12 – 16		

*components temperature in foaming test 40 – 50 °C

APPLICATION

In the formulation of thermal-insulating polyurethane spraying rigid foam (roofs, floors and floorings).
Component A (Purios HR/01) mixture of polyols with additives.
Component B (Purocyn B) polymeric diphenylmethane 4, 4′ diisocyanate.
Surface spraying should be clean and dry, with temperatures min. 15°C, the ambient temperature during spraying min. 15°C and humidity max. 60%. The spray layer thickness should be in the range of 10 – 20 mm.

FOAM PROPERTIES		
Thermal conductiontivity	λm – (0.021 – 0.022) W/mK	EN 14315-1:2013 (PN -EN 12667:2002)
Water vapour transmission water vapour resistance factor, μ	≥ 64,7 75,8*	EN 14315-1:2013 (PN - EN 12086:2013)
Water absorption	≤ 0.11 kg/m^2	EN 14315-1:2013 (PN EN 1609: 2013) metoda B
Density foam in finished product	55 +/-5 kg/m^3	PN - EN 1602 : 2013
Compressive strength at 10 % strain	≥ 200 kPa 380 kPa*	EN 14315-1:2013 (PN EN 826:2013)
Tensil streght	≥ 412 kPa	EN 14315-1:2013 (PN EN 1607:2013-07)

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Closed cells content	min. 90 %	PN -ISO 4590
Classification regarding reaction to fire	E	EN 14315-1:2013 (PN EN 13501 -1+A1:2010, PN EN ISO 11925 -2: 2010)

Note: The process for the preparation of the foam takes place with the release of heat, and therefore it depends on the external conditions, the lower the temperature of the raw materials of the substrate or the environment, the lower is the degree of expansion (foaming). Foam properties becomes full after 48 hours.

*Averaged values from the tests performed.

CONDITIONS OF STORAGE AND TRANSPORT

Optimal storage temperature is 5 - 25 ° C. Raw materials should be stored in dry and closed rooms. Both components must be protected against moisture from the air. Shelf life in original manufacturer's packaging, stored at the recommended conditions is 6 months from the date of manufacture.
According to RID / ADR, both components are not hazardous materials.

Notice: Encompassed dates in this technical information obtained in of the model conditions.
During the work in other possible conditions it's possible to obtain differ results from given.