Technical Information No 51/2018

DP No 18 - CPR305-2018

Version: 6.0 EN

Date of issue: 12.04.2021

Purios HO

GENERAL INFORMATION

Purios HO 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 possess sanitary certificate PZH: BK/B/0233/01/2019

PRODUCT CHARACTERISTIC			
	Component A	Component B	Standard
Viscosity 25°C [mPas]	300 – 700	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]	1 – 3		
Gelation time [s]	4 – 6		

*components temperature in foaming test 40 – 50 °C

APPLICATION

In the formulation of thermal-insulating polyurethane spraying rigid foam (ceilings, walls, foundations, floors and floorings).
Component A (Purios HO) 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 5 – 10 cm.

FOAM PROPERTIES		
Thermal conductiontivity	λm – (0.021 – 0.023) W/mK	EN 14315-1:2013 (PN -EN 12667:2002)
Water vapour transmission Water vapour transmission factor, Water vapour resistance factor, μ	≥ 0.02678 mg/(m·h·Pa) ≤ 27	EN 14315-1:2013 (PN - EN 12086:2013)
Water absorption	≤ 0.10 kg/m^2	EN 14315-1:2013 (PN EN 1609: 2013) metoda A
Density foam in finished product	33 – 37 kg/m^3	PN - EN 1602 : 2013
Compressive strength at 10 % strain	280 kPa	EN 14315-1:2013 (PN EN 826:2013)

Purinova Sp. z o.o.
ul. Fordońska 74, 85-719 Bydgoszcz, Poland
purinova@purinova.com, T:+48 (52) 5616710, F: +48 (52) 5616711, www.purinova.com
Sąd Rejonowy Bydgoszcz | XIII Wydział Gospodarczy | KRS: 0000269659 | NIP/VAT No:PL 993 050 11 49 | REGON: 120373337

Close cells content	min. 90 %	PN -ISO 4590
Classification regarding reaction to fire Classification regarding reaction to fire (*Purios HO coated with DC315 fire resistant coating)	E B-s2, d0	EN 14315-1:2013 (PN EN 13501 -1:2019-02, PN EN ISO 11925 -2: 2010) EN 13501-1:2018 (PN-EN ISO 13823, PN-EN ISO 11925-2)
Dimensional stability after 48 h: in temperature: +70°C i 90 % relative humidity in temperature: - 20°C	**DS (70,90) 4** d ≤ 1%; l, b ≤ 4% **DS (-20,-) 4** d ≤ 0,5%; l, b ≤ 2%	EN 14315-1:2013 (PN EN 1604:2013-07)
Deforamtion, %, after 168 h, load 40 kPa in temp. 70 °C	DLT(2)5 ≤ 5 %	EN 14315-1:2013 (PN EN 1605:2013-07)

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.

*The amount of fire retardant paint DC315 applied shall be in accordance with the film thickness recommended by the manufacturer.

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.

NARODOWY INSTYTUT ZDROWIA PUBLICZNEGO PZH PRODUKT Z ATESTEM

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.

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Terms and Conditions of Sale.

Purinova Sp. z o.o.
ul. Fordońska 74, 85-719 Bydgoszcz, Poland
purinova@purinova.com, T:+48 (52) 5616710, F: +48 (52) 5616711, www.purinova.com
Sąd Rejonowy Bydgoszcz | XIII Wydział Gospodarczy | KRS: 0000269659 | NIP/VAT No:PL 993 050 11 49 | REGON: 120373337