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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 conductivity | $\lambda_m - (0.021 - 0.023) \text{ W/mK}$ | EN 14315-1:2013 (PN -EN 12667:2002) |
| Water vapour transmission Water vapour resistance factor, μ | $\geq 24,5$ $25,7^{**}$ | EN 14315-1:2013 (PN - EN 12086:2013) |
| Water absorption | $\leq 0.09 \text{ kg/m}^2$ | 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 | CS(10/Y)200 kPa 280 kPa** | EN 14315-1:2013 (PN EN 826:2013) |
| Close cells content | min. 90 % | PN -ISO 4590 |

| | | |
|---|--|--|
| Classification regarding reaction to fire | E | EN 14315-1:2013 (PN EN 13501 -1:2019-02, PN EN ISO 11925 -2: 2010) |
| Classification regarding reaction to fire (*Purios HO coated with DC315 fire resistant coating) | B-s2, d0 | 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) |
| Deformantion, %, 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.

**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.

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