

1. PRODUCT DESCRIPTION

EKOPRODUR 2232W is a two-component polyurethane system used to produce rigid foam.

POLY COMPONENT (polyol mixture)	EKOPRODUR 2232W POLY
ISO COMPONENT (isocyanate)	ISO KOMPONENT B

2. APPLICATION

EKOPRODUR 2232W is used for the production of insulation boards and panels in forms and in-situ pouring.

3. CHARACTERISTICS OF COMPONENTS

POLY INGREDIENT – a polyol mixture in the form of an oily liquid without suspensions, with a color from light red to dark brown, depending on the production batch.

ISO COMPONENT – a mixture of aromatic polyisocyanates, mainly diphenylmethane diisocyanate. Liquid of brown color, without suspensions.

Parameter	POLY	ISO	Unit
Density at 20°C	1,10 ± 0,02	1,22 ± 0,02	g/cm ³
Viscosity at 20°C	750 ± 200	350 ± 100	mPa·s

4. FOAMING CHARACTERISTICS UNDER LABORATORY CONDITIONS

Reaction times and apparent density of the core were measured in laboratory conditions (at 20°C) with manual foaming in a laboratory vessel – agitator approx. 5000 rpm.

Parameter	Value	Unit
Weight ratio of POLY:ISO components	100 : 153	
Cream time	24 ± 4	s
Gel time	145 ± 15	s
Tack free time	315 ± 35	s
Apparent core density	32 ± 2	kg/m ³

5. RECOMMENDED PROCESSING CONDITIONS

EKOPRODUR 2232W is a system that can be processed manually or using low-pressure or high-pressure foaming machines.

Volumetric ratio of POLY:ISO components	100 : 153	
Parameter	Value	Unit
Raw material temperature	18 – 22	°C
Ambient temperature	18 – 25	°C
Lining/mold temperature	30 – 40	°C

IMPORTANT: With aluminum or stainless steel cladding, it may be necessary to prepare the substrate mechanically or chemically for increased adhesion.

The density of foam in the finished product should be no less than 40 kg/m³ (calculated as the ratio of the mass of the system in kg to the total volume of the m³). The method of mixing and pouring the system into the mold should ensure uniform filling, so that the density of the cut core fragments in the finished element is not less than 38 kg/m³.

The method of mixing and pouring the system into the mold should ensure its optimal filling. The demolding time depends on the size of the fitting, the temperature of the mold and the temperature of the POLY and ISO components.

Full mechanical properties of the foam are obtained after 24 hours of seasoning. Before processing, it is recommended to mix the POLY component.

Before starting work with the EKOPRODUR 2232W system, you should familiarize yourself with the Safety Data Sheets of both components.

6. PROPERTIES OF THE SPRAYED FOAM

For the finished insulation product obtained from the system EKOPRODUR 2232W by the method of pouring in the form obtained the following results:

Parameter	Value	Unit	Standard
Apparent density of the core	≥ 40	kg/m ³	EN 1602:2013
Fire classification	F	-	EN 13501-1:2019
Thermal conductivity coefficient λ,	0,025	W/(m·K)	EN 12667:2002
Compressive stress at 10% relative deformation, σ ₁₀	≥ 200	kPa	EN 826:2013
Temperature stability: 70°C, 90% RH, after 48 h	d ≤ 4 sz ≤ 4 g ≤ 1	% % %	EN 1604:2013
Temperature stability: -30°C, after 48 h	d ≤ 2 sz ≤ 2 ≤ 0.5 g	% % %	EN 1604:2013
Contents of closed cells	>90	%	EN ISO 4590:2016

7. PACKAGING

Metal barrels with a capacity of 200 dm³, container IBC with a capacity of 1000 dm³. Delivery in other packaging agreed with the recipient is possible.

8. RECOMMENDED STORAGE CONDITIONS

Both components of the system should be stored in tightly closed packages in dry rooms with a temperature of 15 - 25 ° C. Protect against moisture and direct sunlight. The shelf life for the component POLY in the manufacturer's originally closed packaging, stored under the recommended conditions, is **3 MONTHS** from the date of manufacture. For special shipments, please direct contact with the appropriate person from the logistics department in order to make the correct selection of packaging (other requirements).

9. LEGAL REGULATIONS

- EKOPRODUR 2232W does not contain ozone-depleting foaming agents, in accordance with the European Union regulations on the trade and use of controlled substances – Regulation (EC) No 1005/2009 of 16 September 2009.
- The product has a hygienic certificate of PZH (*Państwowy Zakład Higieny*) BK/B/0429/01/2019
- Transport regulations apply in accordance with section 14 of the Product Safety Data Sheet

10. ADDITIONAL INFORMATION

Refer to the data contained in the safety data sheet both components of the system.

The data contained in this technical information are based on the results of our laboratory tests and on practical experience and do not constitute a guarantee of the properties of the final finished product. The results obtained may differ from those given when the product is used under conditions other than those assumed. Therefore, we recommend that you conduct your own tests to check the suitability of the product for a given application. The use of foam and the conditions of its application are not controlled by the manufacturer, the responsibility for their correct selection lies with on the contractor. Guidelines for the use of the system contained in are in Technical Information (TDS) and Safety Data Sheets (SDS). Failure to comply with the conditions recommended by the manufacturer may negatively affect the foam application process and its parameters.

IMPORTANT: We are happy to provide technical and substantive support in the implementation and use of the polyurethane system EKOPRODUR 2232W. At the same time, when necessary, we help in the adaptation and selection of important parameters. In all matters related to the purchase and use of the EKOPRODUR 2232W polyurethane system, we encourage you to contact a technical and commercial representative directly or by writing on prodex@pcc.eu.