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Purios Epoxy Floor PRO

PRODUCT DESCRIPTION AND USE

Purios Epoxy Floor PRO is a two-component colored epoxy resin used for the protective and decorative finishing of floors.

APPLICATION

Purios Epoxy Floor PRO is designed for use by experienced contractors.

Garages, production halls, warehouses, laboratories, public utility buildings, commercial buildings, workshops, and parking areas.

Component A : Purios Epoxy Floor PRO: epoxy resin

Component B: Purios Epoxy Floor Hardener PRO: hardener

PHYSICAL AND CHEMICAL PARAMETERS

Parameters	Component A	Component B	Standard
Viscosity 20 °C [mPas]	4000-8000	70-500	WL/3/PURINOVA
Density 20 °C [g/cm ³]	1.6 - 1.7	1.01 – 1.07	WL/8/PURINOVA
MIXING CHARACTERISTICS			
Mixing ratio (by weight)	100 component A: 25 component B		
Mixture life [min]	approx. 30 min (20°C)		
Temperature of components A and B	≥ 15°C		
COATING PROPERTIES AFTER CURING			
Shore hardness D (after 7 days)	75 ± 5		WL/71/PURINOVA
Adhesion	≥ 2,0 N/mm ²		PN-EN 1542
Resistance to abrasion	< 3000 mg		PN-EN ISO 5470-1:2017-02
Reaction to fire	E _{fl}		PN-EN 13501-1
Emission of hazardous substances	It can be used in category A and B rooms intended for human habitation. Purios Epoxy Floor meets the requirements for EU-LCI values.		PN-EN 16516+A1:2020-12 PN-EN ISO 16000-9:2009 ISO 16000-6:2021 ISO 16000-3:2022

Advantages of Epoxy systems:

- high abrasion resistance
- high coverage capacity
- good adhesion
- solvent free

- easy to apply
- durable substrate protection
- wide range of colours
- formaldehyde free
- meets the requirements of national regulations on the release of hazardous substances

Substrates:

Application on floor surfaces.

Specification:

- complies with PN-EN 1504-2
- hygiene certificate no. AH 85/322/85/2024

APPLICATION CONDITIONS

Temperature range 10 - 30°C (recommended temperature 15 - 25°C)

Substrate moisture: do not exceed 4%.

Substrate temperature: min 10°C

Maximum air humidity allowed during application: 70%, dew point > 3°C

Ensure room ventilation.

High temperatures significantly shorten the time during which the mixture remains usable, thereby reducing its processing time. Low temperature significantly increases the drying time of the coating.

SUBSTRATE PREPARATIONRequirements:

The surface to which Purios Epoxy Floor PRO will be applied must be dry, degreased, stable, and free of dust, loose parts, and cement laitance.

The substrate must be seasoned (minimum 28 days).

The preparation of the substrate depends on its condition and quality.

Recommended stages of substrate preparation:

- removal of dirt and contamination
- spot removal of greasy stains (if any)
- cleaning and filling of gaps
- repair of cracks if necessary
- sanding
- priming, preferably using Purios Epoxy Primer

MATERIAL PREPARATION

Component A and component B are supplied in the appropriate proportion.

Mix component A very thoroughly, then add component B.

Mix with a slow-speed mixer to avoid air entrapment (at a speed of about 300 rpm) for about 2-3 minutes, until a homogeneous mass is obtained. Make sure that the mixer movement covers the area at the bottom and walls of the mixer, so that the hardener is distributed evenly. Poor mixing of the hardener with the base may result in coating defects.

The temperature of the individual components before starting work should not be lower than +15°C.

mixing ratio :

component A : component B = 100 : 25 (by weight)

DESCRIPTION OF APPLICATION

Remember, application time after mixing is approximately 30 min (at 20°C).

Temperature range 10 - 30°C (15 - 25°C recommended).

Pour the mixture onto the surface to be coated.

Application of the epoxy coating is usually carried out with a roller, rubber squeegee or metal squeegee.

Drying time and use:

Apply the next coat layer after 16 -20 hours.

Full use of Purios Epoxy Floor PRO is obtained after 7 days from the final application.

FINISHING

- decorative flakes (sprinkle on wet coating so that the flakes have a chance to 'stick' into the surface)
- polyurethane finishing varnish

NOTE!

- Coating exposed to sunlight may change colour.
- Do not leave the mixed material in the container unchecked until the container is empty, due to the nature of the reaction taking place.

THEORETICAL EFFICIENCY

Efficiency depends on the condition of the substrate and its absorbency.

Floor:

- made with a roller: 0.2 - 0.3 kg/m² per layer
- made with a sheet (when the substrate is even): 1.0 - 1.6 kg/m² per layer

The material consumption depends, among other things, on the application method, the type and quality of the substrate. The usage values given should be regarded as indicative. Exact using values should be determined for the specific object.

SHELF LIFE, STORAGE

Purios Epoxy Floor PRO retains its properties for 12 months from the date of manufacture.

Store in original closed containers in dry places, away from sources of heat, store at temperatures 5 - 30°C.

Do not expose to sunlight, do not freeze.

According to RID/ADR, it is not hazardous material.

TOOL CLEANING

Immediately after use, use suitable solvents e.g. acetone.

PACKAGING

Sold in Component A + Component B sets

Sets: 10kg, 15kg, 30kg, 40kg

SAFETY

Before working with Purios Epoxy Floor PRO System, read and adhere to the Safety Data Sheet, Declaration of Performance and Technical Information.

Do not allow the components and the finished system to come into contact with the eyes and skin. Wear protective clothing and gloves, mask and goggles during all work.

Do not inhale vapours/dispersed liquid.

In case of contact with skin (or hair): immediately remove all contaminated clothing. Rinse skin under a jet of water or shower.

In case of eye contact: rinse carefully with water for several minutes. Remove lenses if present and can be easily removed. Continue rinsing.

IF CONCERNED OR IF UNSURPRISING, UNWANTED SYMPTOMS ARISE DURING APPLICATION STOP WORKING AND CONTACT YOUR MEDICINE

Do not empty into drains.

Do not dispose of with municipal waste.

Unused product, soiled packaging and used tools must be collected and disposed of in a landfill site with the appropriate classification.

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