

SUSTAINABILITY-DATASHEET

UZIN PE 460

2-Component Epoxy Primer- Sealer

Indoor Air Quality (VOC)

EMICODE EC 1 PLUS - very low emission

Solvent-free

M1 classified



Life Cycle Assessment (LCA) and Environmental Product Declaration (EPD)

LCA according to ISO 14040/44

Impact indicators:

Functional Unit (FU): 1 kg product; cradle-to-gate (according to EN 15804: Modules A1-A3)

| | | | | | | |
|---|------------------------------|----------|---|------------------------------|----------|----------|
| Global warming potential (GWP 100) | [kg CO ₂ -Eq./kg] | 7,70 | Total use of non-renewable primary energy resources | [MJ/kg] | 129,21 | |
| Depletion potential of the stratospheric ozone layer (ODP) | [kg R11-Eq./kg] | 8,30E-07 | Total use of renewable primary energy resources | [MJ/kg] | 2,89 | |
| Acidification potential of land and water (AP) | [kg SO ₂ -Eq./kg] | 1,93E-03 | Waste categories: | | | |
| Eutrophication potential (EP) | [kg PO ₄ -Eq./kg] | 6,79E-03 | | Hazardous waste disposed | [kg/kg] | 3,76E-04 |
| Formation potential of tropospheric ozone photochemical oxidants (POCP) | [kg Ethen-Eq./kg] | 2,59E-03 | | Non-hazardous waste disposed | [kg/kg] | 2,77 |
| Abiotic depletion potential for non-fossil resources (ADPe) | [kg Sb-Eq./kg] | 4,82E-05 | Radioactive waste disposed | [kg/kg] | 2,98E-04 | |
| Abiotic depletion potential for fossil resources (ADPf) | [MJ/kg] | 118,10 | Use of net fresh water | [m ³ /kg] | 3,76 | |

Green Building / Certification of Buildings

DGNB – German Sustainable Building Council

Version 2018. Criteria: ENV 1.2 Risks for local environment (Risiken für die lokale Umwelt)

Product group according to matrix of criteria (Row 8): primer, sealants, levelling compounds and adhesives underneath wall and flooring coverings (for example tiles, textile floorcoverings, wood flooring, resilient flooring – except murals)

| Quality level (QS) | Requirements | Compliant |
|--------------------|---|-----------|
| QS 1 | GISCODE D1, ZP1, RU 0,5, RU 1, RE05, RE10, RE20 oder RE30 oder RS10 | Yes |
| QS 2 | EMICODE EC 1, EC1 Plus, EC1, EC1- Plus oder DE-UZ 113 | Yes |
| QS 3 | EMICODE EC 1, EC1 Plus, EC1, EC1- Plus oder DE-UZ 113 | Yes |
| QS 4 | EMICODE EC 1, EC1 Plus, EC1, EC1- Plus oder DE-UZ 113 | Yes |

Classification: Labelled with the EMICODE EC 1 Plus and the GISCODE RE30 the product meets the highest DGNB quality level 4.

The product is listed in the DGNB navigator and labelled with the DGNB-Label.

Registration code: F9L6RS (www.dgnb-navigator.de)

LEED – Leadership in Energy and Environmental Design

- **Version 2014 (v4), updated 2019. Credit EQ: Low-Emitting Materials**

Product group: Interior adhesives and sealants applied on site (including flooring adhesives).

| Requirements: | Compliant |
|--|-----------|
| VOC content requirements for wet applied products: Compliance with VOC content according to SCAQMD Rule 1168. | Yes |
| General Emissions Evaluation: Compliance with emission limits according to AgBB scheme or CDPH Standard Method v1.1. | Yes |

Classification: VOC content according to SCAQMD Rule 1168 is <5 g/L. Labelled with the EMICODE EC 1 Plus the product meets the emission limits according to the AgBB scheme. Thus, the product meets the requirements of LEED v4 for the low-emitting materials criteria.

- **Version 2009, updated 2013. Credit IEQ 4.1: Low-Emitting Materials**

Product group: Adhesives and Sealants

Requirement: Compliance with the VOC content according to SCAQMD Rule 1168.

Additional Test: VOC emission test according to CDPH Standard Method v1.1 is met.

Classification: VOC content according to SCAQMD Rule 1168 is <5 g/L. Thus, the product meets the requirements of LEED 2009 for the low-emitting materials criteria.

BREEAM - Building Research Establishment Environmental Assessment Methodology

Version 2018. Hea 02 Indoor air quality

| Criteria | Requirements on emission testing | Compliant |
|--|--|-----------|
| Emission criteria (Table 17) | EN 13999 (Parts 1-4) or ISO 16000-9 or CEN/TS 16516 or CDPH Standard Method v1.1 | Yes |
| Exemplary level emission criteria (Additional requirements Table 18) | | Yes |

Classification: The product meets the emission limits according to BREEAM.

Certifications: Technical data sheet, Safety Data Sheet, license of EMICODE EC 1 PLUS and other product related information are available for download at www.uzin.com.

Remark:

This Sustainability Data Sheet is based on our findings and our experience at the time of the issue date. Additionally the data in the product data sheet and the safety data sheet have to be observed.

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