

SUSTAINABILITY-DATASHEET

UZIN KE 16

Universal Adhesive

Indoor Air Quality (VOC)

EMICODE EC 1 PLUS - very low emission

Solvent-free



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]	0,50	Total use of non-renewable primary energy resources	[MJ/kg]	21,93	
Depletion potential of the stratospheric ozone layer (ODP)	[kg R11-Eq./kg]	1,77E-07	Total use of renewable primary energy resources	[MJ/kg]	3,66	
Acidification potential of land and water (AP)	[kg SO ₂ -Eq./kg]	2,85E-03	Waste categories:			
Eutrophication potential (EP)	[kg PO ₄ -Eq./kg]	6,83E-04		Hazardous waste disposed	[kg/kg]	2,31E-03
Formation potential of tropospheric ozone photochemical oxidants (POCP)	[kg Ethen-Eq./kg]	5,39E-04		Non-hazardous waste disposed	[kg/kg]	5,72E-01
Abiotic depletion potential for non-fossil resources (ADPe)	[kg Sb-Eq./kg]	1,83E-06	Radioactive waste disposed	[kg/kg]	1,33E-04	
Abiotic depletion potential for fossil resources (ADPf)	[MJ/kg]	20,98	Use of net fresh water	[m ³ /kg]	0,39	

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 D1 the product meets the highest DGNB quality level 4.

LEED – Leadership in Energy and Environmental Design		
<ul style="list-style-type: none"> 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 11 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.		
<ul style="list-style-type: none"> 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 11 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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