



DITRA-X1

| Premium adhesive for walls and floors

- C2 TE S1 to DIN EN 12004
- For installation of Schlüter®-DITRA and Schlüter®-KERDI product systems
- For laying tiles and natural stone units
- High coverage
- For walls and floors
- For indoor and outdoor use



Emissions

German AgBB test	—
GEV EMICODE	EC1 ^{PLUS} R
French VOC ordinance	A+ very-low-emission
VOC content	—



* Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

Building certification systems

DGNB · German Quality Label for Sustainable Building

2015 version

Criterion	ENV1.2 Local Environmental Impact	
Criteria matrix	Line 8	
Product type	Laying material – Adhesive below wall and floor coverings	
Requirements	Quality level 1 (low)	GISCODE D1/RU0,5/RU1/RE1/RS10
	Quality level 2	GISCODE D1/RU0,5/RU1/RE1/RS10 and EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
	Quality level 3	GISCODE D1/RU0,5/RU1/RE1/RS10 and EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
	Quality level 4 (high)	GISCODE D1/RU0,5/RU1/RE1/RS10 and EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
Rating	Meets quality level 4 requirements.	

Exceptions

Exceptions to the requirements may be granted in cases where one of the specified product requirements cannot be met for technical or functional reasons (i.e. due to the absence of a functionally equivalent product or a design alternative meeting the requirements) or where the basic data cannot be prepared for a reasonable outlay. The deviation from the requirements shall be documented and justified, with details provided of the product, technical application and quantities used. Product exceptions for purely aesthetic reasons are excluded from this provision. Evidence may, for example, be provided by an up-to-date confirmation by at least three market-relevant manufacturers that no suitable product is available for the targeted quality level, or through proof that use of the suitable product was not technically feasible due to force majeure (weather conditions, natural factors such as hydrostatic pressure in subsoil). The evidence provided for a technical exception may only relate to a single quality level and allows no exemption from compliance with any requirements specified for the lower quality levels. Should it be impossible to comply with the requirement of a lower quality level, for technical reasons, this must be consistently indicated in all three submitted manufacturer confirmations relating to the technical exception.

2012 version (2013 upgrade)

Criterion	ENV1.2 Local Environmental Impact	
Criteria matrix	Line 7	
Product type	Laying material – Adhesive below wall and floor coverings	
Requirements	Quality level 1 (low)	GISCODE D1/RU0,5/RU1/RE1/RS10
	Quality level 2	GISCODE D1/RU0,5/RU1/RE1/RS10 and EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
	Quality level 3	GISCODE D1/RU0,5/RU1/RE1/RS10 and EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
	Quality level 4 (high)	GISCODE D1/RU0,5/RU1/RE1/RS10 and EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
Rating	Meets quality level 4 requirements.	
Exceptions	Exceptions to the requirements may be granted in cases where one of the specified product requirements cannot be met for technical or functional reasons (i.e. due to the absence of a functionally equivalent product or a design alternative meeting the requirements) or where the basic data cannot be prepared for a reasonable outlay. The deviation from the requirements shall be documented and justified, with details provided of the product, technical application and quantities used. Product exceptions for purely aesthetic reasons are excluded from this provision. Evidence may, for example, be provided by an up-to-date confirmation by at least two market-relevant manufacturers that no suitable product is available for the targeted quality level, or through proof that use of the suitable product was not technically feasible due to force majeure (weather conditions, natural factors such as hydrostatic pressure in subsoil). The evidence provided for a technical exception may only relate to a single quality level and allows no exemption from compliance with any requirements specified for the lower quality levels.	

2009 version

Profile	06 Local Environmental Impact	
Product type	Flooring adhesive – Product for surface coverings	
Requirements	Quality level 1 (low)	VOC content ≤ 25 %
	Quality level 2	VOC content ≤ 15 % and EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
	Quality level 3	VOC content ≤ 10 % and EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
	Quality level 4 (high)	VOC content ≤ 3 % and EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
Rating	Meets quality level 4 requirements.	
Exceptions	Exceptions to the requirements may be granted in cases where one of the specified product requirements cannot be met for technical or functional reasons (i.e. due to the absence of a functionally equivalent product or a design alternative meeting the requirements) or where the basic data cannot be prepared for a reasonable outlay. The deviation from the requirements shall be documented and justified, with details provided of the product, technical application and quantities used. Product exceptions for purely aesthetic reasons are excluded from this provision.	

BNB · German Assessment System for Sustainable Building

2014 version (draft)

Criterion	1.1.6 Local Environmental Impact	
Summary table	Line 10	
Product type	Laying material – Adhesive below wall coverings	
Requirements	Quality level 1 (low)	Documentation
	Quality level 2	GISCODE D1/RU0,5/RU1/RE1/RS10
	Quality level 3	GISCODE D1/RU0,5/RU1/RE1/RS10 and EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
	Quality level 4	GISCODE D1/RU0,5/RU1/RE1/RS10 and EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
	Quality level 5 (high)	GISCODE D1/RU0,5/RU1/RE1/RS10 and EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
Rating	Meets quality level 5 requirements.	
Summary table	Line 10 a	
Product type	Laying material – Adhesive below floor coverings	
Requirements	Quality level 1 (low)	Documentation
	Quality level 2	EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R
	Quality level 3	EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R
	Quality level 4	EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R and RAL-UZ 113
	Quality level 5 (high)	EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R and RAL-UZ 113
Rating	Meets quality level 5 requirements as EMICODE EC1^{PLUS} R is better than RAL-UZ 113.	
Exceptions	<p>Exceptions to the requirements may be granted in cases where one of the specified product requirements cannot be met for technical or functional reasons (i.e. due to the absence of a functionally equivalent product or a design alternative meeting the requirements) or where the basic data cannot be prepared for a reasonable outlay. The deviation from the requirements shall be documented and justified, with details provided of the product, technical application and quantities used. Product exceptions for purely aesthetic reasons are excluded from this provision.</p>	

2011 version

Criterion	1.1.6 Local Environmental Impact	
Product type	Flooring adhesive – Product for surface coverings	
Requirements	Quality level 1 (low)	Documentation
	Quality level 2	VOC content ≤ 25 %
	Quality level 3	VOC content ≤ 15 % and EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
	Quality level 4	VOC content ≤ 10 % and EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
	Quality level 5 (high)	VOC content ≤ 3 % and EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
Rating	Meets quality level 5 requirements.	
Exceptions	<p>Exceptions to the requirements may be granted in cases where one of the specified product requirements cannot be met for technical or functional reasons (i.e. due to the absence of a functionally equivalent product or a design alternative meeting the requirements) or where the basic data cannot be prepared for a reasonable outlay. The deviation from the requirements shall be documented and justified, with details provided of the product, technical application and quantities used. Product exceptions for purely aesthetic reasons are excluded from this provision.</p>	

NBBW · Sustainable Construction in German Federal State of Baden-Württemberg

2011 version

Sustainability criterion	4 Physiologically harmless and environmentally compatible construction materials
Category	D
Product type	Adhesive for floor coverings
Requirements	Construction products of significance to building control: Ü/CE mark and EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113 Construction products of secondary significance to building control: EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
Rating	Meets requirements for construction products of significance to building control.
Exceptions	Deviations from the individual requirements for the sustainability criteria are allowable in duly justified exceptional cases, provided such requirements are not prescribed by law. The deviations shall be presented and justified, in no specific form, in writing.

NaWoh · Quality Label for Sustainable Housing

2013 version (V 3.0)

Criterion	3.2.4 Avoidance of contaminants
Indicator	Avoidance of contaminants
Product type	Flooring adhesive
Requirements	EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
Rating	Meets requirements.

HafenCity Ecolabel · Sustainable Construction in HafenCity Hamburg

2010 version

Category	3 Use of eco-efficient construction materials
Product type	Flooring adhesive
Requirements	Special attainments – silver EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113 Extraordinary attainments – gold EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R or RAL-UZ 113
Rating	Meets requirements for extraordinary attainments – gold.
Exceptions	Exceptions to the requirements may be granted in cases where one of the product requirements cannot be met. The deviation from the requirements shall be documented and justified, with details provided of the product, technical application and quantities used. Exceptions are only possible where evidence is provided that no design alternative can meet the requirements or that no functionally equivalent products are obtainable on the market for a reasonable outlay. Exceptions justified by purely aesthetic reasons are excluded from this provision.

SWISS MINERGIE-ECO LABEL

2014 version (with 2015 additions)

Exclusion criterion	NA 08 Solvent emissions from construction and ancillary materials
Requirements	No application of solvent-thinned products in heated interiors. Laying materials with the EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R label meet the criterion.
Rating	Meets requirements.
Criterion	Materials and construction processes
Minergie-Eco specification list	Line NM06
Product type	Flooring adhesive
Requirements	EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R
Rating	Meets requirements.
ECO-BKP	281 Floor finishes
Product type	Adhesive
Requirements	Thin- or medium-bed laying with cementitious adhesives, with or without synthetic resin additives
Rating	Meets requirements.

ECO-BKP	282 Wall finishes/coverings
Product type	Thin-bed adhesive
Requirements	Cementitious products, with or without synthetic resin
Rating	Meets requirements.

2011 version (with 2015 additions)

Exclusion criterion	NA 08 Solvent emissions from construction and ancillary materials
Requirements	No application of solvent-thinned products in heated interiors. Laying materials with the EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R label meet the criterion.
Rating	Meets requirements.

Criterion	Materials and construction processes
Minergie-Eco specification list	Line NM06
Product type	Flooring adhesive
Requirements	EMICODE EC1/EC1R/EC1 ^{PLUS} /EC1 ^{PLUS} R
Rating	Meets requirements.

ECO-BKP	281 Floor finishes
Product type	Adhesive
Requirements	Thin- or medium-bed laying with cementitious adhesives, with synthetic resin additives
Rating	Meets requirements.

ECO-BKP	282 Wall finishes/coverings
Product type	Thin-bed adhesive
Requirements	Cementitious products, with or without synthetic resin
Rating	Meets requirements.

LEED · Leadership in Energy and Environmental Design

2014 version (v4)

Credit	EQ: Low-emitting materials	
Product type	Wet-applied adhesive	
Requirements	1 – 3 points	Pass in AgBB (German Committee for Health-Related Evaluation of Building Products) test and compliance with Paints Directive (2004/42/EC).
Rating	Meets requirements as EMICODE EC1^{PLUS} R is better than AgBB test pass and product does not fall under Paints Directive.	

2009 version (2013 update)

Credit	MR 4: Recycled content	
Requirements	1 point	5 % recycled content (by weight)
	2 points	10 % recycled content (by weight)
Rating	Meets requirements for 2 points as recycled content totals 23.95%.	

Credit	MR 5: Regional materials	
Requirements	1 point	5 % regional materials (Manufacturing location is at max. distance of 800 km from construction site)
	2 points	10 % regional materials (Manufacturing location is at max. distance of 800 km from construction site)
Rating	Manufacturing location is Wiesbaden, Germany.	

Credit	IEQ 4.1: Low-emitting materials – Adhesives and sealants	
Product type	Ceramic tile adhesive	
Requirements	VOC content (without water)	Max. 65 g/ltr
Rating	Meets requirements.	

BREEAM · Building Research Establishment Environmental Assessment Methodology

2013 version (2014)

For further details, please contact our sustainability experts by phone on +49 (0)6 11 17 07-293 or by e-mail at nachhaltigkeit@sopro.com.

Further information

INGREDIENTS

CAS numbers	65997-15-1	Portland cement
	65996-69-2	Complex mixture of calcium and magnesium silicates and aluminates
	544-17-2	Calcium formate
	1305-62-0	Calcium hydroxide

PRECAUTIONARY STATEMENTS

Labelling	Danger. Contains Portland cement and calcium formate. Contains complex mixture of calcium and magnesium silicates and aluminates. Exhibits strong alkaline reaction upon contact with moisture/water; protection required for skin and eyes. All standard precautions for the handling of construction materials/chemicals shall be taken. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. P102 Keep out of reach of children. P261 Avoid breathing dust. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water and soap. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor. P332+P313 If skin irritation occurs: Get medical advice/attention.
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German Water Hazard Class (WGK)	WGK 1 · Slightly hazardous to water
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GISCODE	ZP1 · Low-chromate to Regulation (EC) No 1907/2006, Annex XVII
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PUBLIC-SECTOR REGULATIONS

Test certificates	Technische Universität München: – C2 TE S1 to DIN EN 12004
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Ü/CE mark	CPR-DE3/0658.1.eng
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CORPORATE SUSTAINABLE RESPONSIBILITY

Guiding principle	Sustainability is a cornerstone in Sopro Bauchemie's corporate philosophy. This is always understood by the company as the simultaneous pursuit, with equal priority, of environmental, social and economic goals.
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Engagement in sustainability (memberships)	EUF · Federation of European Tile Fixers' Associations GEV · German Association for the Control of Emissions in Products for Flooring Installation, Adhesives and Building Materials DGNB · German Sustainable Building Council MINERGIE · Swiss Association for Sustainable Construction Umweltallianz Hessen · Hessian Environmental Alliance, seminal project initiated by the Hessian Federal State government Ökoprofit-Klub · Environmental counselling scheme for companies in the Hessian Federal State capital of Wiesbaden Deutsche Bauchemie e.V. · German Construction Chemicals Manufacturers' Association
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Quality management	Certified to DIN EN ISO 9001
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Energy management	Certified to DIN EN ISO 50001
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Technical data sheet

Safety data sheet

Declaration of performance

Sustainability data sheet

All documents are available for downloading at www.sopro.com.

For further details, please contact our sustainability counselling service on +49 (0)6 11 17 07-293.