

Sustainability data sheet

ARDEX S 1-K Sealing compound

One-compound sealant for sealing under tiles and panels.

Emissions

According GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V., Düsseldorf)

EMICODE® EC 1,
very low emission



According Emission Classification of Building Materials

-

According eco-bau

eco-1



solvent-free

EPD (Environmental Product Declaration)

ARDEX S 1-K corresponds to FEICA EPD:

EPD-FEI-20160084-IBG1-EN

According BASTA

ARDEX S 1-K is BASTA registered.

BASTA registration means that we can verify that this product meets agreed properties criteria regarding properties hazardous to the environment and health. See www.bastaonline.se



Technical Assessment

According GISBAU (TRGS 610, Technische Regeln für Gefahrstoffe):

GISCODE (acrylate dispersion): D1 – solvent-free dispersion installation products

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Sustainable Building

According DGNB (Deutsche Gesellschaft für Nachhaltiges Bauen)

Version 2018

DGNB criteria ENV 1.2: Local environmental impact

ARDEX S 1-K can be classified as barrier coatings, floor resins, sealings under tiles. ARDEX S 1-K has the GISCODE D1 and is certified by EMICODE® EC 1, very low emission, based on GEV.

Notice: For products up to 5 % of BGFa (DIN 277) no documentation is required.

ARDEX S 1-K fulfills the requirements for highest Quality Level 4.

Version 2015

DGNB criteria ENV 1.2: Local environmental impact

ARDEX S 1-K can be classified as barrier coatings, floor resins, sealings under tiles. ARDEX S 1-K is certified by EMICODE® EC 1^{PLUS} R, very low emission, based on GEV.

Notice: For products up to 5 % of BGFa (DIN 277) no documentation is required.

ARDEX S 1-K fulfills the requirements for highest Quality Level 4.

According LEED (Leadership in Energy and Environmental Design)

Version 4 (2014)

EQ: Low Emitting Materials

ARDEX S 1-K meets the requirements according EMICODE® EC 1, very low emission, based on GEV which are accepted by LEED.

ARDEX S 1-K meets the requirements and contributes to achieving one LEED point under EQ: Low Emitting Materials.

MR: Building Product Disclosure and Optimization – Environmental Product Declaration

ARDEX S 1-K corresponds to a model EPD by FEICA, which provides the evidence of a life cycle assessment (LCA) „cradle to gate“.

ARDEX S 1-K fulfills the requirements and contributes to achieving a LEED point under MR: Building Product Disclosure and Optimization – Environmental Product Declaration.

Version 2009

IEQ Credit 4.1: Low Emitting Materials: Adhesives and Sealants

The permitted limit value in the category Sealants - other Sealant according SCAQMD Rule 1168 is 420 g/L. The VOC value of ARDEX S 1-K according SCAQMD Rule 1168 is < 420 g/L.

ARDEX S 1-K meets the requirements and contributes to achieving one LEED point under IEQ: Low Emitting Materials.

MR Credit 5.1 und 5.2: Regional Materials

Production site: 58453

Distance Production site – Project site < 800 km

Products that are used regionally within a 500 mile (800 kilometer) can be contributed to achieving one LEED point.

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According BREEAM-NOR (Building Research Establishment Environmental Assessment Methodology)

Version 2016

BREEAM-NOR criteria Hea 02 Indoor air quality

ARDEX S 1-K can be classified as Sealants like elastic or plastic sealants bases on polyurethane, silicone, MS, acrylic or other.

ARDEX S 1-K fulfills the required emission limits and is certified by EMICODE® EC 1, very low emission, based on GEV which is accepted as documentation.

ARDEX S 1-K meets the requirements according BREEAM-NOR and contributes to achieving one credit under Hea 02 Indoor air quality.

According BREEAM (Building Research Establishment Environmental Assessment Methodology)

Version 2016

BREEAM criteria Hea 02 Indoor air quality

ARDEX S 1-K can be classified as Interior adhesives and sealants (including flooring adhesives). ARDEX S 1-K meets the requirements according Table 17: Emission criteria by product type and Table 18: Exemplary level emission criteria by product type.

ARDEX S 1-K is certified by EMICODE® EC 1, very low emission, based on GEV.

ARDEX S 1-K meets the requirements according BREEAM and contributes to achieving one credit under Hea 02 Indoor air quality.

According Nordic Swan Ecolabelling

ARDEX S 1-K is listed in the database for building products that can be used in Nordic Swan Ecolabelled buildings.

Notice: This data sheet has been compiled based on state-of-the-art technology and our experience. In spite of diligent treatment of all information ARDEX GmbH cannot guarantee the actuality or correctness of the published data. The interpretation of building certification criteria can differ and depend on the project and scope of application. The content of these data sheet does not manifest any legal relationship.

Additionally, the current information given in the Technical and the Material Safety Data Sheet have to be considered.

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