

Sustainability data sheet

ARDEX B 12

Rapid Drying Concrete Render and Finishing Compound

For smoothing, repairing, levelling and coating of wall and ceiling areas based on exposed concrete, precast concrete parts, cement or lime-cement plaster. For filling of cracks, holes and extensive recesses on walls and ceilings.

Emissions

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

EMICODE® EC 1^{PLUS} R,
very low emission



According Emission Classification of Building Materials

M1



solvent-free

EPD (Environmental Product Declaration)

ARDEX B 12 corresponds to FEICA EPD:

EPD-FEI-20160042-IBG1-EN

Technical Assessment

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

GISCODE ZP1 - cementitious product, low-chromate

Classification according EN 1504-3:2006

Products and systems for the protection and repair of concrete structures
Part 3: Structural and non-structural repair

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Sustainable Building

Accordinging DGNB (Deutsche Gesellschaft für Nachhaltiges Bauen)

Version 2018

DGNB criteria ENV 1.2: Local environmental impact

ARDEX B 12 is classified in the group of coatings on predominantly mineral interior substrates, such as concrete, masonry, mortar and putty (e.g. concrete putty). Floor surfaces with special resistance requirements (such as OS systems) and traffic routes such as underground garages, access roads, as well as visible and decorative screeds are not considered.

ARDEX B 12 has a VOC content of <5 g/l. Notice: For products up to 5 % of BGFa (DIN 277) no documentation is required.

ARDEX B 12 fulfills the requirements for highest Quality Level 4.

Version 2015

DGNB criteria ENV 1.2: Local environmental impact

ARDEX B 12 is classified in the group of coatings on predominantly mineral interior substrates, such as concrete, masonry, mortar and putty (e.g. concrete putty). Floor surfaces with special resistance requirements (such as OS systems) and traffic routes such as underground garages, access roads, as well as visible and decorative screeds are not considered.

ARDEX B 12 is free of solvents and plasticizers according to VdL-RL01. Notice: For products up to 5 % of BGFa (DIN 277) no documentation is required.

ARDEX B 12 fulfills the requirements for highest Quality Level 4.

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According LEED (Leadership in Energy and Environmental Design)

Version 4 (2014)

EQ: Low Emitting Materials

ARDEX B 12 meets the requirements according EMICODE® EC 1^{PLUS} R, very low emission, based on GEV which are accepted by LEED.

ARDEX B 12 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 B 12 corresponds to a model EPD by FEICA, which provides the evidence of a life cycle assessment (LCA) „cradle to gate“.

ARDEX B 12 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

Cement based renders are not directly described by LEED. But the permitted limit value in the category coatings is 50 g/L. The VOC value of ARDEX B 12 is < 50 g/L.

ARDEX B 12 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.

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

Version 2016

BREEAM-NOR criteria Hea 02 Indoor air quality

ARDEX B 12 fulfills the required emission limits and is certified by EMICODE® EC 1^{PLUS} R, very low emission, based on GEV and by M1 which is accepted as documentation.

ARDEX B 12 meets the requirements according BREEAM-NOR and contributes to achieving one credit under Hea 02 Indoor air quality.

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.

