

# Sustainability data sheet

## ARDEX X 77 Microtec Tile Adhesive

Installation and laying of tiles based on stoneware and fine stoneware, glass mosaic and porcelain, artificial stone panels and moisture resistant nature stone panels. In- and outdoors, floor.

### Emissions

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

**EMICODE® EC 1<sup>PLUS</sup> R,**  
very low emission



According Emission Classification of Building Materials

**M1**



solvent-free

### EPD (Environmental Product Declaration)

ARDEX X 77 corresponds to FEICA EPD:

**EPD-FEI-20160042-IBG1-EN**

### According BASTA

ARDEX X 77 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](http://www.bastaonline.se)



### Technical Assessment

#### Meets the C2 requirements according to EN 12004

C2 TE, Cement mortar for increased requirements with additional characteristic values extended open time (E) and reduced slipping (T).

#### Meets the S1 requirements according to EN 12002

S1 deformability > 2,5 mm

According GISBAU (TRGS 610, Technische Regeln für Gefahrstoffe):  
**GISCODE ZP1** - cementitious product, low-chromate

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## Sustainable Building

### Accordinging DGNB (Deutsche Gesellschaft für Nachhaltiges Bauen)

#### Version 2018

##### **DGNB criteria ENV 1.2: Local environmental impact**

ARDEX X 77 can be classified as primers, primer coatings, putties and adhesives under wall and floor coverings (eg. Tiles, carpets, wooden floors, resilient flooring – except wallpaper).

ARDEX X 77 has the GISCODE ZP1 and is certified by EMICODE® EC 1<sup>PLUS</sup> R, very low emission, based on GEV.

**ARDEX X 77 fulfills the requirements for highest Quality Level 4.**

#### Version 2015

##### **DGNB criteria ENV 1.2: Local environmental impact**

ARDEX X 77 can be classified as primers, primer coatings, putties and adhesives under wall and floor coverings (eg. Tiles, carpets, wooden floors, resilient flooring – except wallpaper).

ARDEX X 77 is certified by EMICODE® EC 1<sup>PLUS</sup> R, very low emission, based on GEV.

**ARDEX X 77 fulfills the requirements for highest Quality Level 4.**

### Accordinging LEED (Leadership in Energy and Environmental Design)

#### Version 4 (2014)

##### **EQ: Low Emitting Materials**

ARDEX X 77 meets the requirements according EMICODE® EC 1<sup>PLUS</sup> R, very low emission, based on GEV which are accepted by LEED.

**ARDEX X 77 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 X 77 corresponds to a model EPD by FEICA, which provides the evidence of a life cycle assessment (LCA) „cradle to gate“.

**ARDEX X 77 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 primers, sealings and undercoatings according SCAQMD Rule 1168 is 65 g/L. The VOC value of ARDEX X 77 according SCAQMD Rule 1168 is < 65 g/L.

**ARDEX X 77 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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## Sustainable Building

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

#### Version 2016

#### **BREEAM-NOR criteria Hea 02 Indoor air quality**

ARDEX X 77 fulfills the required emission limits and is certified by EMICODE® EC 1<sup>PLUS</sup> R, very low emission, based on GEV and by M1 which is accepted as documentation.

**ARDEX X 77 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 X 77 can be classified as Interior adhesives and sealants (including flooring adhesives). ARDEX X 77 meets the requirements according Table 17: Emission criteria by product type and Table 18: Exemplary level emission criteria by product type.

ARDEX X 77 is certified by EMICODE® EC 1<sup>PLUS</sup> R, very low emission, based on GEV.

**ARDEX X 77 meets the requirements according BREEAM and contributes to achieving one credit under Hea 02 Indoor air quality.**

### According Nordic Swan Ecolabelling

**ARDEX X 77 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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