

# Sustainability data sheet

## ARDEX X 77 S Microtec Flexible Tile Adhesive, fast

For installation and laying of ceramic coverings, artificial stone panels and moisture resistant naturestone panels in- and outdoors. Installation of fine stone tiles.

### Emissions

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

**EMICODE® EC 1,**  
very low emission



According French VOC Classification

**A+**



solvent-free

### EPD (Environmental Product Declaration)

ARDEX X 77 S corresponds to FEICA EPD:

**EPD-DBC-20220217-IBF1-EN**

### Technical Assessment

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

C2 FTE, Cement mortar for increased requirements with additional characteristic values early adhesive strengths (F), 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

ARDEX GmbH

Friedrich-Ebert-Straße 45

58453 Witten

[www.ardex.de](http://www.ardex.de)

Tel.: +49 2302 664-511

Fax: +49 2302 664-298

[kundendienst@ardex.de](mailto:kundendienst@ardex.de)

[www.ardex.de](http://www.ardex.de)



# ARDEX X 77 S

Microtec Flexible Tile Adhesive, fast

## Sustainable Building

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

#### Version 2018

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

ARDEX X 77 S 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 S has the GISOCDE ZP1 and is certified by EMICODE® EC 1, very low emission, based on GEV.

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

#### Version 2015

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

ARDEX X 77 S 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 S is certified by EMICODE® EC 1, very low emission, based on GEV.

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

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

#### Version 4 (2014)

##### EQ: Low Emitting Materials

ARDEX X 77 S meets the requirements according EMICODE® EC 1, very low emission, based on GEV which are accepted by LEED.

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

**ARDEX X 77 S 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 S according SCAQMD Rule 1168 is < 65 g/L.

**ARDEX X 77 S 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.

ARDEX GmbH

Friedrich-Ebert-Straße 45

58453 Witten

[www.ardex.de](http://www.ardex.de)

Tel.: +49 2302 664-511

Fax: +49 2302 664-298

[kundendienst@ardex.de](mailto:kundendienst@ardex.de)

[www.ardex.de](http://www.ardex.de)



# ARDEX X 77 S

Microtec Flexible Tile Adhesive, fast

## Sustainable Building

According BREEAM (Building Research Establishment Environmental Assessment Methodology)

### Version 2016

#### BREEAM criteria Hea 02 Indoor air quality

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

ARDEX X 77 S is certified by EMICODE® EC 1, very low emission, based on GEV.

**ARDEX X 77 S meets the requirements according BREEAM 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.

ARDEX GmbH  
Witten, 10/03/2023

ARDEX GmbH  
Friedrich-Ebert-Straße 45  
58453 Witten  
www.ardex.de

Tel.: +49 2302 664-511  
Fax: +49 2302 664-298  
kundendienst@ardex.de  
www.ardex.de

