

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-22/0325
of 29 June 2022

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General Part

Technical Assessment Body issuing the
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

Ambienta Magic

Product family
to which the construction product belongs

Flooring

Manufacturer

Atramex AG
Spinnerstrasse 2
4410 Liestal
SCHWEIZ

Manufacturing plant

Atramex Produktions GmbH
Johann-Esche-Straße 36
09212 Limbach-Oberfrohna
DEUTSCHLAND

This European Technical Assessment
contains

5 pages which form an integral part of this assessment

This European Technical Assessment is
issued in accordance with Regulation (EU)
No 305/2011, on the basis of

EAD 190022-00-0503

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Specific part

1 Technical description of the product

This European Technical Assessment applies for the floor coating system "Ambienta Magic", hereinafter referred to as floor coating system. The floor coating system consists of the following products:

- The primer "7721 System-Atramex Ambienta Magic Base Grundierung" based on a polyacrylic dispersion,
- The coating including a curing component and a filler component "Ambienta Magic" based on an alkyd resin-polyurethane dispersion as well as
- The two-component topcoat "7719 System-Atramex Ambienta Magic transparent finish matt" based on a polyacrylate-polyurethane dispersion.

The filler component may consist of granulated cork, granulated nutshell or maize cob meal. The total thickness of the coating system amounts to 2.80 ± 0.20 mm.

The European Technical Assessment has been issued for the products on the basis of agreed data/information, deposited with Deutsches Institut für Bautechnik. The European Technical Assessment applies only to products corresponding to this agreed data/information.

2 Specification of the intended use in accordance with the applicable European Assessment Document

The coating system is used inside buildings on dry, clean, grease and oil-free and no cement skin or loose parts containing, dust-free mineral substrates. The compressive strength must be at least 25 N/mm^2 and the adhesive tensile strength at least 1.5 N/mm^2 . Uneven or porous areas must be filled or leveled over the entire surface beforehand.

The performance according to section 3 only applies if the floor coating system is installed according to the manufacture's installation instructions and if they are protected from precipitation, wetting or weathering in built-in state for at least 24 h after installation. Furthermore, the performances according to Section 3 are only valid if the floor coating system is used in compliance with the specifications and conditions given in clause 1.2.1 of the corresponding European Assessment Document 190022-00-0503.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the floor coating system of at least 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class B _{fl} -s1** According to EN 13501-1:2018
** For layer thicknesses according to section 1, when used on substrates of class A1 or A2 - s1, d0 according to EN 13501-1:2018, thickness ≥ 6 mm, bulk density ≥ 1350 kg/m ³ .	

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance		
Content, emission and/or release of dangerous substances			
Substances, classified as Carc. 1A/1B ^{a)}	None of these raw materials are actively used in the manufacture of the construction product. ^{b)}		
Substances, classified as Muta. 1A/1B ^{a)}			
Substances, classified as Acute Tox. 1, 2, 3; Repr. 1A/1B; STOT SE 1 and STOT RE 1 ^{a)}			
SVOC and VOC	The product was tested and evaluated for emission of dangerous substances (according to EN 16516:2018) using the loading factor L = 0,4 m ² /m ³ for floors. ^{c)}		
		3 days	28 days
	Carcinogens (Cat. 1A/1B)	< 0.01 mg/m ³	< 0.001 mg/m ³
	TVOCspez	< 10 mg/m ³	< 1.0 mg/m ³
	TSVOC		< 0.1 mg/m ³
	TVOC without NIK		< 0.1 mg/m ³
	R-value		< 1
Release scenarios regarding BWR 3: IA1 and IA2			

a) According to regulation (EG) Nr. 1272/2008.

b) Assessment was based on a manufacturer declaration detailing the product composition.

c) Detailed performance data according to test report.

3.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Compressive strength	No performance assessed
Flexural strength	No performance assessed
Wear resistance	≤ AR0.5
Impact resistance	≥ IR8.0
Shrinkage	≤ SK1.1
Modulus of elasticity	No performance assessed
Water permeability	No performance assessed
Rolling wheel floor covering	No performance assessed
Bond strength	≥ B1.5
Crack bridging	No performance assessed
Anti-slip properties	R10
Chemical resistance	No performance assessed

3.4 Energy economy and heat retention (BWR 6)

Essential characteristic	Performance
Thermal conductivity	0.1 W/(m·K)

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD 190022-00-0503, the applicable European legal act is: 97/808/EC, amended by 1999/453/EC, 2001/596/EC and 2006/190/EC.

System 3 is to be applied with regards to the content, emission and/or release of dangerous substances.

Based on the determined test performance specified in clause 3.1, system 3 is to be applied with regard to reaction to fire.

For other uses than specified above the system is: 4

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 29 June 2022 by Deutsches Institut für Bautechnik

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beglaubigt:
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