Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.
Association for the Control of Emissions in Products for Flooring Installation, Adhesives and Building Materials

Granting of a licence to use the EMICODE®

Licence Number:	7489/24.02.97
For the product	ARDEX R 4 Rapid
Of company	ARDEX GmbH
Due to application date	17.10.2016

With reference to the classification carried out on behalf of the Association for the Control of Emissions in Products for Flooring Installation, Adhesives and Building Materials as well as in accordance with the provisions under § 10 of the GEV Trademark Rules, the above-mentioned product is hereby granted the licence to use the GEV label pursuant to § 5(4) of the GEV Trademark Rules.

GEV-EMICODE® EC 1 PLUS very low emission

This product meets with the guidelines for the criteria of use listed reverse.

The company is an ordinary member of the GEV.

The Managing Director
Association for the Control of Emissions in Products for Flooring Installation, Adhesives and Building Materials (GEV)
Fischerstraße 2 · 40477 Düsseldorf

OM001 05.10.2026
Valid until 05.10.2031

Requirements for granting the EMICODE® licence

The product classified on the previous page of this licence must meet, among others, the following criteria laid down by the GEV's Technical Council in the Trademark Rules and in the Classification Criteria.

- The product complies with all legal requirements, in particular those of the Chemicals Law and its regulations.
- The product is solvent-free as defined by TRGS 610, provided it is not a surface treatment product. If the product can be assigned to a GISCODE product group, this must be specified accordingly.
- A safety data sheet (SDS) is prepared for the product if required by local law.
- CMR substances (carcinogenic, mutagenic or reprotoxic substances) of categories 1A and 1B are not actively added to the product during manufacture (for exceptions see section 3.1.2.2 of the GEV Classification Criteria).
- Emission testing is performed according to the defined GEV test method. VOC determination is carried out in a test chamber using the Tenax thermal desorption method with subsequent GC/MS analysis.
- Classification into EMICODE® classes is based on the product group, provided that all requirements listed in the tables below are met. The applicable EMICODE® class is then used for product labelling:

1) Flooring installation products, adhesives and building materials

Parameter	EC 1 PLUS	EC 1	EC 2
	Max. permissible concentration [µg/m³]		
TVOC after 3 days	≤ 750	≤ 1000	≤ 3000
TVOC after 28 days	≤ 60	≤ 100	≤ 300
TSVOC after 28 days	≤ 40	≤ 50	≤ 100
R-value based on German AgBB LCI-values after 28 days	≤ 1	≤ 1	-
Sum of non-assessable VOCs	≤ 40	-	-
Formaldehyde after 3 days	≤ 50	≤ 50	≤ 50
Formaldehyde after 28 days	≤ 10	≤ 10	≤ 10
Acetaldehyde after 3 days	≤ 50	≤ 50	≤ 50
Sum of formaldehyde and acetaldehyde after 3 days	≤ 0.05 ppm	≤ 0.05 ppm	≤ 0.05 ppm
Sum of volatile carcinogenic organic substances of cat. 1A/1B after 3 days	< 10	< 10	< 10
Any volatile carcinogenic organic substance of cat. 1A/1B after 28 days	< 1	< 1	< 1

2) Surface treatment products for parquet, mineral floors and resilient flooring

Parameter	EC 1 PLUS	EC 1	EC 2
	Max. permissible concentration [µg/m³]		
Sum TVOC + TSVOC after 28 days	≤ 100 thereof max. 40 SVOCs	≤ 150 thereof max. 50 SVOCs	≤ 400 thereof max. 100 SVOCs
R-value based on German AgBB LCI-values after 28 days	≤ 1	≤ 1	-
Sum of non-assessable VOCs	≤ 40	-	-
Formaldehyde after 3 days	≤ 50	≤ 50	≤ 50
Formaldehyde after 28 days	≤ 10	≤ 10	≤ 10
Acetaldehyde after 3 days	≤ 50	≤ 50	≤ 50
Sum of formaldehyde and acetaldehyde	≤ 0.05 ppm	≤ 0.05 ppm	≤ 0.05 ppm
Sum of volatile carcinogenic organic substances of cat. 1A/1B after 3 days	< 10	< 10	< 10
Any volatile carcinogenic organic substance of cat. 1A/1B after 28 days	< 1	< 1	< 1