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

GEV EMICODE®

Awarding of licence for the use of EMICODE

Licence Number:	6915/10.10.13
For the product	OTTOFLEX Tiefengrund
Of company	Hermann Otto GmbH
Due to application date	April 21, 2016

With reference to the classification in accordance with the directives as stipulated in § 10 of the GEV trademark constitution

on behalf of the GEV for the above mentioned product as per § 5, section 4 of the GEV trademark constitution is awarded the licence for the use of the GEV trademark

GEV-EMICODE® EC 1 PLUS very low emission

This product meets with the guidelines for the criteria of use listed reverse.
The company is ordinary member of the GEV.

OM 098 April 22, 2016
valid until April 22, 2021

The Secretary General
Association for the Control of Emissions in Products for Flooring Installation, Adhesives and Building Materials (GEV)
Völklinger Straße 4 · D-40219 Düsseldorf

Requirement guidelines for the awarding of the EMICODE licence

The flooring installation material mentioned in the front side licence has to meet with the following criteria in accordance with the constitution and guidelines of the Technical Advisory Board of the GEV and others:

- The product meets all the legal requirements, especially the chemical law and its specifications.
- The product is solvent free due to occupational health. Only in case of a wood flooring coating it might contain low content of solvents.
- A safety data sheet (MSDS) according to local law in its respectively valid version is to be established for the product.
- Carcinogenic, mutagenic, reprotoxic substances as well as those substances under suspicion to cause such defects are not permitted to be used in the manufacturing of this product.
- The testing of the product is in accordance with the defined GEV test method. Afterwards the definition of VOC is conducted in a test chamber by using the Tenax thermodesorption procedures with GC/MS analysis.
- The classification into the EMICODE classes is performed according to the following listed and described criteria and TVOC concentration groups. For product labelling the matching EMICODE class is to be used.

GEV product matrix	EMICODE		
	EC 1 PLUS	EC 1	EC 2
	TVOC/TSVOC$_{28d}$ in µg/m³		
1. Liquid products	After 3 days ≤ 750 TVOC; after 28 days ≤ 60 TVOC / ≤ 40 TSVOC	After 3 days ≤ 1000 TVOC; after 28 days < 100 TVOC / ≤ 50 TSVOC	After 3 days ≤ 3000 TVOC; after 28 days ≤ 300 TVOC / ≤ 100 TSVOC
1.1 Primers (floor and wall)			
1.2 Ready to use thin fixations and adhesives			
1.3 Damp proof primers or barrier primers			
1.4 Liquid sealants, pasty surface sealants			
2. Mineral products			
2.1 Cement and calcium sulphate based levelling compounds			
2.2 Cement based and other mineral tile mortars and joint fillers			
2.3 Waterproofing slurries			
2.4 Screeds and screed binding materials			
3. Pasty products with high content of organic binder			
3.1 Pasty adhesives for floor coverings and parquet, ready-to-use adhesive for ceramic tiles, other adhesives			
3.2 Pasty fixations for floor coverings			
3.3 Levelling compounds (based on dispersion or reactive resin)			
3.4 Powder based adhesives with high content of organic binder			
4. Ready to use products which do not require chemical curing or physical drying			
4.1 Underlays			
4.2 Insulating underlays			
4.3 Self-adhesive tapes and underlays			
4.4 Installation boards, decoupling/insulation boards, wall panels			
5. Joint sealants, joint insulations, joint sealing tapes			
5.1 Joint sealants (based on dispersion or reactive resins), repair fillers			
5.2 Joint insulations, expanding foams			
5.3 Pre-compressed or foam plastic joint sealing tapes			
5.4 Sealing membranes, tapes, sleeves for small surfaces			
5.5 Sealing membranes for large surfaces			
6. Surface coating for wood floorings	≤ 100 Σ TVVOC, TVOC, TSVOC thereof max. 40 SVOC	≤ 150 Σ TVVOC, TVOC, TSVOC thereof max. 50 SVOC	≤ 450 Σ TVVOC, TVOC, TSVOC thereof max. 100 SVOC
6.1 Waterborne wood floor coatings			
6.2 Water-based joint filler for parquet	After 3 days ≤ 750 TVOC; after 28 days ≤ 60 TVOC / ≤ 40 TSVOC	After 3 days ≤ 1000 TVOC; after 28 days < 100 TVOC / ≤ 50 TSVOC	After 3 days ≤ 3000 TVOC; after 28 days ≤ 300 TVOC / ≤ 100 TSVOC

Edition: April 3, 2014

* **TVOC** = Total Volatile Organic Compounds