

Ceresit



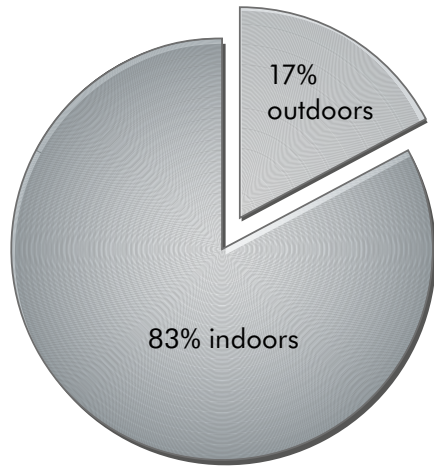
High quality – low emission

EC1-certified products from Ceresit

Quality for Professionals

THE IMPORTANT THING WHEN STAYING INDOORS: CLEAN AND HEALTHY INDOOR AIR

We spend more and more time indoors: at the working place, in shopping centres, on public transportation or in our homes. Just consider



On average, adults spend nearly 20 hours a day indoors (> 80%).

the average time spent by adults within their own four walls: 14 hours a day! That's why the quality of indoor air is of great or even vital importance.

When talking about indoor air quality, we need to consider the crucial role played by contaminants in our homes. These are, for example, emitted from the building materials installed on walls and floors. Fact is that the necessary air exchange hardly ever takes place in a controlled and optimal way. The use of lowemitting products can thus provide effective protection against emissions that can significantly affect our comfort of living and – in the worst case – even our health.



What are emissions?



What you can see in this picture is in reality invisible: Adverse effects on indoor air caused by gases emitted from floor installation products, adhesives or other building materials.

Emissions are the release of gaseous, liquid or solid pollutants into the environment. Of significant importance for the quality of indoor air are the types and quantities of so-called "volatile organic compounds" (VOCs) that are emitted into the atmosphere.

Especially the gases emanating from freshly applied lacquers and paints, adhesives, insulation systems and other building materials can cause an alarming rise in the concentration of harmful VOCs in the air that can persist for days after the materials have been installed.

What are VOCs and TVOCs?

The English abbreviation VOC stands for "Volatile Organic Compounds". Until the middle of the 1990s, there was no generally accepted definition of the term VOC. Typical VOCs are solvents, benzene and diesel fuel.

TVOC is the abbreviation for "Total Volatile Organic Compounds", which is the total sum of VOC concentrations of all individual (measured) substances.

Solvent, benzene, diesel fuel





The EMICODE issued by the GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.) has meanwhile evolved into an internationally recognized guidance and quality standard for low-emission products. Among professional craftsmen, planners and tenderers, the certification "EMICODE EC1" is regarded as the highest quality seal for low-emitting building products. Up to now, well over 2,500 products from the categories flooring installation, adhesives and construction materials have been tested.

After being awarded the EC 1 label, manufacturers commit themselves to produce these products under quality-controlled conditions so that they comply with the EMICODE requirements at all times. Additionally, the GEV arranges for regular

checks of the EC1-certified products to be carried out by independent and internationally renowned testing institutes. This ensures reliable and permanent protection against harmful emissions.

The extensive tests carried out by the GEV are based on standardized test methods and evaluation criteria. Working in close cooperation with environmental and consumer protection organizations, the GEV created EMICODE as a certification scheme tailored specifically to modern low-emission building products. Since its establishment in 1997, the GEV EMICODE has become a highly accepted standard throughout Europe.

What does the GEV EMICODE promise?

- Greatest possible assurance of indoor air quality
- Long-term health protection
- High environmental compatibility

Big cause, big effect: the reduction of emissions since foundation of the GEV.*

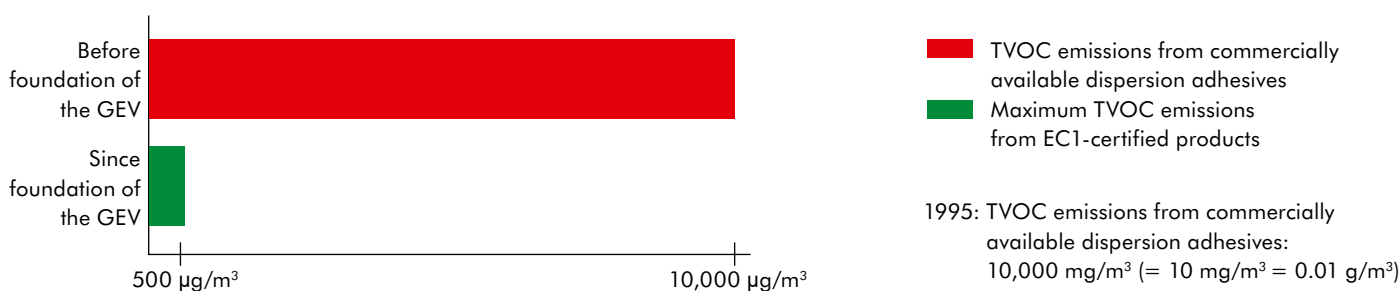
Since its foundation in 1997, the GEV has had a very positive impact on indoor air hygiene. This becomes evident when comparing the figures in the graph below.

Before 1997, the total amount of emissions from commercially available dispersion adhesives was around 10,000 $\mu\text{g}/\text{m}^3$. TVOC* emissions from

EC1-certified adhesives ("very low emission") must not exceed 500 $\mu\text{g}/\text{m}^3$ after 10 days. Following the introduction of the EMICODE standard, both retailers and the industry experienced a significant reduction in the number of complaints received.

* in Germany

Base year 1995: Data collected by the Technical Committee of the German Adhesives Industry Association (IVK).



EC1 – certified products from Ceresit

After proper preparation of the substrate, the desired floor covering (carpet, linoleum, laminate or wood flooring) can be finally glued down – with or without insulation or damping underlay. Underlays may be necessary to separate the flooring from the substrate so as to avoid shrinkage or expansion caused by

temperature changes. Roll-type flooring very rarely lies flat of its own accord and should therefore be fixed by bonding. Carpet and elastic flooring is particularly prone to expansion while in use, so it is strongly recommended that these types of flooring are always glued down. Failing to do so will most likely



UK 800 Universal Flooring Adhesive

For virtually all kinds of flooring and application techniques

Properties

- High initial tack, ideal also for unwieldy, stiff coverings
- Easy to apply by notched trowel/roller
- Economical “one-for-all” concept

Application

- Tufted carpets with textile, latex foam and PUR backings
- Woven textile flooring and needle punch carpets
- Rubber tile and sheet flooring up to 2.5mm thickness with a smooth, sanded back
- Homogeneous PVC tile and sheet flooring as well as CV flooring

UK 400 Special PVC Adhesive

For textile, PVC, CV and linoleum flooring

Properties

- High initial tack
- Long working time
- Excellent workability
- Solvent-free
- Suitable for underfloor heating

Application

- Homogeneous PVC flooring (sheets and tiles)
- PVC design flooring
- PVC composite flooring with textile backing
- CV flooring
- Tufted carpeting with textile backing
- Linoleum sheet and tiles & PVC design flooring in private areas with low traffic load
- Ceresit-Floor® damping underlays on absorbent substrates

K 188 E Special Adhesive Extra

For all types of resilient flooring (e.g. PVC, CV, polyolefin and rubber)

Properties

- Extra strong tack
- Excellent wetting even with difficult coverings
- Suitable for wet, pressure-sensitive and contact bonding
- Very economical consumption
- Suitable for underfloor heating

Application

- PVC floor coverings – homogeneous and heterogeneous, sheets and tiles
- CV floor coverings
- Quartz vinyl floor tiles
- Polyolefin sheeting
- Rubber sheets and tiles up to 2.5 mm thickness with a smooth, sanded back
- Textile floor coverings with a latex, PVC or PUR foam backing
- Ceresit-Floor® sound damping underlays on absorbent substrates

result in the formation of unsightly bumps, bubbles and waves. In areas of high wear, this might even lead to dangerous trip hazards and will considerably decrease the useful life of the flooring. Once the textile, linoleum or PVC flooring has been glued down, any undesired movement is eliminated and the risk of

bubbles is successfully banned. Bonded wood flooring is less prone to curling and warping during climatic changes and can be smoothed down and re-sealed much more easily after a number of years. Adhesives are also a means of providing useful sound insulation.



K 198 Special PVC Adhesive

For common resilient coverings

Properties

- Strong tack
- Suitable for absorbent, non-absorbent substrates and vertical surfaces
- Suitable for wet and pressuresensitive bonding
- Resistant to furniture castors (with appropriate floor covering)
- Suitable for underfloor heating

Application

- CV floor coverings
- Quartz vinyl floor tiles
- Textile floor coverings with a latex, PVC or PUR foam backing
- Ceresit-Floor® sound damping underlays on absorbent

L 240 D Linoleum Adhesive

Linoleum adhesive with high early strength and high initial tack on absorbent substrates

Properties

- Suitable for all types of linoleum
- Short open time to ensure rapid work progress
- High initial tack
- Shear-resistant bond
- High dimensional stability

Application

- Linoleum sheets and tiles
- Corkment
- Cork linoleum
- Ceresit-Floor® Damping Underlay on absorbent substrates
- Residential, commercial, office and hospital buildings

T 440 Carpet Adhesive

For bonding textile flooring on absorbent substrates

Properties

- Easy to spread
- Rapid initial tack
- User-friendly working time
- High final strength

Application

- Tufted coverings with secondary backing
- Non-woven and latex foamed backings
- Woven flooring
- Needle punch flooring
- PVC and other composite flooring with textile backing
- Water vapor permeable textile flooring on homogeneous PVC and Ceresit underlays

Before installing any kind of floor covering, the surface needs to be properly prepared with the right choice of products. Naturally, these products must satisfy the highest demands: not only regarding their

aesthetic appeal, but also by offering the highest level of protection for the consumer's health and for our environment. The product classification system

The basis for reliable adhesion: primers

In order to ensure reliable adhesion of the levelling compound, the substrate should first be primed. Priming is of particular importance for any type of flooring installation since primers perform multiple tasks: they strengthen weak surfaces, create a bonding course on very dense and smooth surfaces, reduce

substrate absorbency and thus protect levelling compounds from too rapid dehydration and cracking. In addition, they simply bind the unavoidable dust when working under building site conditions – dust that could otherwise inhibit adhesion.



R 766 Multi-Purpose Primer

For absorbent and impervious substrates

Properties

- High concentration – high coverage
- Multi-purpose use
- Fast drying
- Suitable underneath wood flooring
- Also on old substrates

Application

Very low-emission, concentrated primer as adhesion promoter for Ceresit levelling compounds. Ceresit R 766 is not a barrier against moisture.

EMICODE provides valuable and reliable help in determining the health and environmental hazard of surface preparation products. All products that

have been awarded the EC1 quality label feature very low emissions, including for example levelling compounds, floor adhesives and primers.

The basis for perfectly smooth surfaces: levelling compounds

Levelling compounds are used for producing smooth, level and more "adhesive-friendly" substrates. Since substrates are often too rough, porous and uneven, difficulties are unavoidable, especially when installing thin or very glossy floor coverings. In these cases, the slightest imperfection could result in the formation of bubbles, hollows or simply in an aesthetically unpleasant finish. Inclined areas will become noticeable, because the furniture does not sit flush to the floor or wall.

Without professional surface preparation, the installed flooring may become a constant source of annoyance. Levelling compounds are mixed with a specific amount of water. Thanks to their special flow properties, they are able to smooth out any irregularities of the substrate. Once all cracks and cavities are sufficiently filled, an almost perfectly smooth surface will result.



DA Floor Levelling Compound

**For layers of 0.5 to 10 mm in
one single application**

Properties

- Self-levelling and pumpable
- Good strength values
- Smooth surface

Application

Very low-emission floor levelling compound for producing norm-conforming substrates that are ready to receive floor coverings. Ceresit DA is suitable for use on mineral screeds, concrete, tiles and slabs, natural stone and terrazzo.

For use in dry indoor areas only. Do not use for producing screeds, wear surfaces and mastic asphalt screeds.

Quality worldwide – for your professional success.

Starting out as a small family-run business, Henkel has grown over the past 130 years into an innovative, customerdriven and highly successful global company.

Today, Henkel, with its leading brands and technologies, makes people's lives easier, better and more beautiful. As many as 47,000 people in 125 countries work for the company in three strategic business sectors: Adhesive Technologies, Laundry & Home Care and Beauty Care.

An integral part of Adhesive Technologies is the Henkel Building Systems department which serves the needs of the construction industry and professional craftsmen. Our extensive know-how, highly innovative products based on superior technologies and customized system solutions help not only professional users but all our customers to be more successful and efficient while preserving the earth's natural resources.

Your expert partner for floor covering technology



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