GEV-EMICODE EC 1 PLUS very low emission

Self-levelling and smoothing compound

- **Suitable for concrete, screeds and nonabsorbent subfloors**
- **For straightening and levelling of substrates**
- **As top flooring in stockrooms, warehouses, and for industrial floors**
- **For interior use**
- **Suitable for design floors**
- **For renovation and new build**
- **Excellent flow properties in thin layers**
- **Fast setting**
- **Suitable for underfloor heating mats**
- **Thickness: 1 - 20 mm**

Product
Grey, fast-setting, polymer modified powder on the basis of aluminous cement.
Applicable by trowel or pump.

Coverage
Approx. 1.6 kg per m² /mm thickness.

Packaging
Available in 20 kg PE lined paper bags.

Surfaces
Concrete subfloors, max humidity 95% RH. Cohesive strength should be min. 1 N/mm².
Anhydrite screeds, max. 0.5% residual moisture.
Ceramic tiles, terrazzo, and timber floors.
For further information and details, please contact our Technical Services Dept.

Surface preparation
The surface should be dimensionally stable, sound, clean and free from dust and laitance. Residues from grease or soap can be removed with Alfix Deep Cleaner. To remove laitance or roughen smooth surfaces, use mechanical preparation, such as sanding or grinding, and vacuum subsequently.
Prime absorbent surfaces with Alfix PlaneMixPrimer.
Prime non-absorbent surfaces with Alfix UniversalPrimer. Alternatively, wash/brush the surface with a mixture of Alfix PlaneMixPrimer and levelling powder in the ratio 1:2.
Ensure a room temperature of min. +10°C while working. Allow primer to dry before commencing further treatment. Application of smoothing compound should be made within 24 hours after priming. Use self-adhesive foam tape to retain at doors, around floor drains, etc. If possible prevent compound from obtaining contact to walls. For thicknesses exceeding 5 mm, always apply self-adhesive foam tape for walls. Should levelling imply several layers, priming before each new application is required.

Mixing and levelling
Add 4.5-5.0 litres of clean cold water per 20 kg bag of powder.

Amount of water per bag*)	5.0 litres	4.75 litres	4.5 litres
Layer thickness in mm	1 mm	10 mm	20 mm

Recommended amount of water

Pour water into a clean container and sprinkle in powder while stirring continuously. If possible, use large mixing container or drum for more bags at a time and mix until a lump-free, easy-flowing mix is obtained. Mixing time is approx. 2 minutes using rotary drill paddle. Pour or pump Alfix PlaneMix 20 onto the prepared substrate and spread with notched or straight trowel until the compound flows together into a smooth and even surface. For thicknesses exceeding 20 mm, incorporate kiln dried sand to extend coverage.
If in doubt, please contact our Technical Services Dept.
Concrete, min. thickness: 1 mm
Exposure to chair castors, min. thickness: 2 mm
Timber floors, min. thickness: 10 mm
Top flooring, min. thickness: 5 mm (dry locations).

NB!
In wet rooms, a waterproofing/tanking layer must always be applied on top of the levelling compound.
Additional water should not be added to levelling compound already starting to set. Note that the temperature of mixing water will influence working time/pot life.
Over dosage of water will reduce strength and may produce laitance. Protect from draughts, direct sunlight, and heat.
Close broken packaging carefully after use and use the rest within the shortest possible time.

Flooring
Prior to further installation, make sure that the relative humidity on location corresponds to the floor covering in question. Curing rate is influenced by temperature, humidity, ventilation, as well as sub-floor construction.

Tiling: 12 hours at +20°C for thickness up to 10 mm
Tanking and tiling: 24 hours at +20°C
Dense coverings: directional curing time: approx. 24 hours for layer in 10 mm thickness obtaining 85% RH.

Precautions

CE	Alfix A/S H.C. Oersteds Vej 11-13 DK-6000 Kolding alfix.com 14	Declaration of performance No. 27	DS/EN 13813 CT-C35-F7-AR0,5 PlaneMix 20 Cementitious screed material for use interally in buildings.
Reaction to fire	$A2_{fl}$-s1	Release of corrosive substances	CT
Water permeability	NPD	Water vapour permeability	NPD
Compressive strength	C35	Flexural strength	F7
Wear resistance	AR0,5	Sound insulation	NPD
Sound absorption	NPD	Thermal resistance	NPD
Chemical resistance	NPD		

Cleaning
Tools and tiles should be cleaned with water before the compound sets.
Cement-based products harden when mixed with water, hence do not pour surplus PlaneMix into the drain system.

Test
Low emission, GEV-EMICODE EC1 - test defined by the German institute Gemeinschaft Emissionskontrollierte Verlegestoffe.

Technical enquiries
Levelling compounds - plane, smooth surfaces with Alfix
Wet rooms – Tanking with Alfix
Product info on:
• Alfix Deep Cleaner
• Alfix PlaneMixPrimer
Product health and safety data /COSH

For further information, please consult our Technical Services Dept.

Working temperature	+10°C - +25°C
Density	2.1 kg/litre (mixed with water)
Flow EN 12706	Approx. 145-155 mm
Working time	20 - 40 minutes at +20°C
Foot traffic	After 2 - 3 hours at +20°C
Floor covering	After 12 hours at +20°C
Full strength	After 7 days at +20°C
Compression strength	30 - 40 N/mm²
Bending tensile strength	7 - 10 N/mm²
Tensile adhesion strength concrete	1.5 - 2.0 N/mm² at 5 mm thickness
Shelf life	Minimum 6 months when stored unopened in cool, dry conditions