

■ **FIELDS OF APPLICATION**

GEHOPON-E175 is a special binder for primers and coatings, blow-hole fillers, repair mortars and synthetic resin screeds especially on concrete and cement screed surfaces where there is a risk of humidity penetration from the rear. GEHOPON-E175 is also used as primer for the OS8-System.

■ **PRODUCT PROPERTIES**

GEHOPON-E175 is based on solvent-free epoxy resins of very low viscosity and a special curing agent. After curing and depending on the used supplements coatings respectively mortars can be achieved which are highly resistant to mechanical and compressive stresses as well as to a large extent resistant to alkalis and acids.

Test certificates

- Test report P 4481-2 dated 02/08/2006 of Polymer Institut Forschungsinstitut für polymere Baustoffe Dr. R. Stenner GmbH on the adhesive strength and the occurrence of bubbles in case of humidity penetration from the rear according to DAfStb-RiLi 2002.
- Test report P 5598 from 2008-10-29 of the Kiwa Polymerinstitut according to the test program class OS 8 of the DafStb-Richtlinie.

■ **PRODUCT DATA**

GEHOPON-E175 A-Comp.

GEHOPON-E175 B-Comp.

Product number and colour

E175- 01
transparent

EX-175

Mixing ratio

68 parts by weight

32 parts by weight

Shelf life

At least 12 months in original cans at temperatures of 10 to 25 °C.

Theoretical consumption

For primer coatings 0.3 to 0.5 kg/m² per working operation, depending on the roughness and absorbency of the substrate.

We recommend a second working operation for very porous or high absorbent substrates.

■ **TECHNICAL DATA**

Notes referring to Directive 2004/42/EC „Decopaint-Directive“

Subcategory as referred to in Annex IIA	VOC limit values (Phase II from 2010)	Max. VOC content of the product in its ready for use condition (including the max. amount of diluents as given in "Application methods")
J ("Two-pack reactive performance coatings") Type SB	500 g/l	< 500 g/l

Parameter

Capacity	Value
Adhesive strength on concrete	≥ 2.5 N/mm ² (break in concrete)

(Values depending on type and quantity of supplements)

Coating systems

Primer coating:

GEHOPON-E175 can be used as a primer coating under many G+W-floor-coating materials.

Filler, e.g. for full scale fillings:

GEHOPON-E175 plus 1 to 2 parts by weight quartz sand of the grain size 0.1 to 0.4 mm.

Filler, e.g. for partial fillings:

GEHOPON-E175 plus 5 to 7 parts by weight quartz sand of the grain size 0.1 to 0.4 mm. If necessary the standardising agent RS 225 can also be added.

Epoxy resin based mortar:

GEHOPON-E175 plus 10 parts by weight of the following quartz sand mixture:

2 parts by weight quartz powder, grain size up to 0.2 mm

3 parts by weight quartz sand, grain size 0.3 to 0.8 mm

5 parts by weight quartz sand, grain size 1.0 to 1.8 mm

Consumption: approximately 2.4 kg/m² at 1 mm film thickness.

Remark: Mortars are usually applied wet-on-wet to a freshly applied primer coating.

■ **INSTRUCTIONS
FOR APPLICATION**

Substrate

The substrate should be dry, free of loose and sand-releasing pieces, dust, cement slurry and other pollutants and should fulfil the following requirements:

- Concrete: min. C 20/25
- Cement screed: mind. CT-C35-F5 (ZE 30)
- Age: min. 28 days
- Adhesive strength: min. 1.5 N/mm²
- Residual moisture: < 4 % (measured by CM-method)

Surface preparation

Layers with insufficient load-carrying capacity, cement slurry and oil-bearing contaminants have to be removed mechanically, e.g. by ball blasting or by using a rotary hoe.

Processing conditions

**Air and surface
temperature**

Min. 5 °C, max. 25 °C.

Optimal results will be achieved at temperatures of 15 to 25 °C.

Attention:

If the air or surface temperature rises during application on a porous substrate, bubbles can occur.

Relative humidity

Max. 80 % relative humidity.

Do not apply under dew point conditions.

Comments on processing

Mixing Mix GEHOPON-E175 thoroughly with the enclosed curing agent using a mechanical mixer for about 5 minutes until a homogenous and unclouded mixture is produced. Then pour into another container. After repeated mixing the material is ready for use.
In a larger container the supplements can be added. If large quantities of supplements are added or if large quantities of the material are produced we recommend the use of forced mixers.

Application methods Cross-coating with a roller coater.
Coating or filling with a scraper or a trowel.

Cleaning of equipment Thinner V-538
Cured material must be removed mechanically.

Pot life 20 to 40 minutes (depending on temperature)

Waiting time between working operations

		+ 10 °C	+ 20 °C	+ 25 °C
Full scale filler on primer	min.	24 h	12 h	6 h
	max.	2 days	36 h	24 h
Coating on full scale filler	min.	24 h	12 h	6 h
	max.	5 days	4 days	3 days

(Times relevant only if no sanding was made)

Drying and curing times Foot traffic after 12 to 16 hours.

Full resistance to mechanical and chemical stresses after 7 to 14 days depending on temperature.

■ **CE LABELLING**

CE Labelling in accordance with EN 13813

CE Labelling in accordance with EN 1504-2

EC Declaration of conformity in accordance with EN 13813

EC Declaration of conformity in accordance with EN 1504-2

■ **SAFETY MEASURES**

The curing agent produces an alkaline reaction on skin and mucous membrane (eyes). Soiling must be avoided. In case of direct contact clean thoroughly with water and soap.

The relevant data concerning safety measures can be found in the material safety data sheet of this product.

The valid issue of the material safety data sheet is available from our website www.geholit-wiemer.de.

The statements made here are based on the present state of our knowledge. We do not assume liability for damages resulting from the use of the material or from any advice given by our employees. In this respect, any advice given by our employees has to be seen as not binding. The processor is responsible for the supervision of construction, the maintaining of process guidelines and the observation of the established rules of techniques, even if our employees are present at the time our material is being applied.

This information is subject to modifications due to technical improvements. The latest edition of this information replaces all previous issues.