

■ **FIELDS OF APPLICATION**

GEHOPON-E600R is used to produce seamless floor coatings on mineral substrates such as concrete or cement screed. These coatings fulfil highest requirements as to mechanical strength, resistance to chemicals, cleanliness and hygiene, e.g. in production rooms, storerooms, motor vehicle halls and hangars, energy and water supply plants, railway stations, workshops, laboratories, beverage plants, garages, corridors etc.

GEHOPON-E600R cures quickly at normal temperatures; foot traffic on coatings is possible after 4 to 6 hours.

■ **PRODUCT PROPERTIES**

GEHOPON-E600R is a coloured two-pack coating material based on solvent-free epoxy resin, contains pigments and fine-grained fillers. The material shows excellent spreading properties and trapped air bubbles are quickly set free.

Cured coatings made of GEHOPON-E600R are resistant to compression and abrasion, highly resistant to mechanical stresses and trafficable.

Capacities

Cured GEHOPON-E600R is resistant to water, oil, petrol, saline solutions and aliphatic solvents and furthermore shows excellent resistance to alkalis.

As with all coatings based on epoxy resin, coatings made of GEHOPON-E600R tend to show colour changes and chalking when exposed to natural weathering.

■ **PRODUCT DATA**

GEHOPON-E600R, Comp. A

GEHOPON-E600R, Comp. B

Product number E600R-

EX-25B

Mixing ratio 5 parts by weight

1 part by weight

Colour E600R-7532, pebble grey approx. RAL 7032
Other colours available on request.

Shelf life At least 12 months in original cans at normal temperature.

Theoretical consumption

DFT	Addition of quartz sand grain size 0.1 to 0.4 mm in mixing ratio	Consumption, quartz sand not considered, in kg/m ²
1 to 2 mm	1 : 0.5	approx. 1.1 /mm
2 to 3 mm	1 : 0,8	approx. 1.0 /mm

■ **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
	Compressive strength	70 to 90 N/mm ² (without filler)
		70 to 90 N/mm ² (with 50 % quartz sand)
		80 to 90 N/mm ² (with 100 % quartz sand)
	Tensile strength under flexion	20 to 40 N/mm ²
	Adhesive strength on concrete	≥ 2.5 N/mm ² (fracture in concrete)

(All statements depending on type and quantity of supplements.)

Coating systems	Substrate	Concrete, cement screed	
	Surface preparation	For best results: ball blasting	
Primer	GEHOPON-E155	GEHOPON-E155	
Theoret. consumption:	0.3 to 0.5 kg/m ²	0.3 to 0.5 kg/m ²	
Full-scale filler	GEHOPON-E600R plus 50 % by weight quartz sand of grain size 0.1 to 0.4 mm	GEHOPON-E600R plus 50 % by weight quartz sand of grain size 0.1 to 0.4 mm	
Theoret. consumption (mixture):	0.4 to 1.0 kg/ m ²	0.4 to 1.0 kg/m ²	
Coating	GEHOPON-E600R plus 50 weight % quartz sand of grain size 0.1 to 0.4 mm	GEHOPON-E600R plus 80 weight % quartz sand of grain size 0.1 to 0.4 mm	
Theoret. consumption (mixture):	1.65 kg/m ² per mm	1.8 kg/m ² per mm	
Film thickness of top coating	1 to 2 mm	2 to 3 mm	

Sanding between the individual working operations:

We recommend a sanding between the individual working operations only when the recommended maximal waiting time is exceeded. In these cases we recommend a light sanding with max. 1.0 kg/m² quartz sand of the grain size 0.3 to 0.8 mm.

The following sealants can be applied on coatings made of GEHOPON-E600R:

- GEHOPON-EW12-Siegel (coloured or transparent, satin glossy)
- WIEREGEN-DW11 (coloured or transparent, flat)

■ **INSTRUCTIONS
FOR APPLICATION**

Substrate

The substrate must be prepared workmanlike and according to the requirements of the system. It must be coated with a primer, if necessary a filler must be applied and the substrate must fulfil the following requirements:

- Concrete: min. C 20/25
- Cement screed: min. CT-C35-F5
- Age: min. 28 days
- Adhesive strength: min. 1.5 N/mm²
- Residual moisture: < 2 % (measured by CM-method)

Surface preparation

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

Processing conditions

**Air and surface
temperature**

min. 10 °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. For this reason, the coating should be applied at a constant or falling temperature on a non-porous substrate.

Relative humidity

max. 80 % relative humidity.

Do not apply under dew point conditions.

The influence of moisture during the curing can result in discolouring or hazing.

Comments on processing

Mixing

Mix GEHOPON-E600R thoroughly with the packed curing agent using a mechanical mixer until a homogenous and unclouded mixture is produced. Then pour into another container. After repeated mixture the material is ready for use.

Methods of application

GEHOPON-E600R is usually applied with a trowel or toothed scraper. The film thickness is controlled via consumption. To improve spreading and to remove trapped air bubbles we recommend the use of spiked rollers.

Coating of vertical or sloping concrete surfaces:

GEHOPON-E600R, plus up to 5 % of standardising agent RS 225.

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

Pot life 10 to 20 minutes depending on temperature.

Waiting time between working operations

	+ 10 °C	+ 20 °C	+ 25 °C
Minimum	12 h	6 h	4 h
Maximum	2 days	36 h	24 h

Times relevant only if no sanding was made

Drying and curing time (at 20 °C) Foot traffic after 4 to 6 hours.
Resistance to mechanical stresses after 12 to 16 hours.
Full resistance to mechanical and chemical stresses after 7 days depending on temperature.

■ **CE LABELLING**

CE Labelling in accordance with EN 13813

EC Declaration of conformity in accordance with EN 13813

■ **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.

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