

**2C-EP Roller Coating,  
wear-resistant, non-skid, electrically conductive**

■ **FIELDS OF APPLICATION**

GEHOPON-E27A is used to produce seamless thin floor coatings on mineral substrates such as concrete or cement screed, in combination with suitable primer coatings. The achieved coatings fulfil high requirements on mechanical strength, resistance to chemicals as well as wear resistance, e.g. in production rooms, storerooms, motor vehicle halls and hangars, energy and water supply plants, railway stations, workshops, laboratories, corridors etc.

Together with suitable electrically conductive sealers it is possible to produce coatings of good electrical conductivity. Ground conduction resistance after total curing:  $\leq 10^6 \Omega$  (measured according to EN 1081 and EN ISO 61340-4-1).

■ **PRODUCT PROPERTIES**

GEHOPON-E27A is a solvent-free, coloured coating material based on a two-pack epoxy resin, which contains pigments and fine-grained fillers as well as silicon carbide (carborundum) as supplement.

GEHOPON-E27A can be applied quickly and easily. Cured coatings are resistant to mechanical and chemical stresses.

**Capacities**

Cured GEHOPON-E27A is resistant to water, oil and petrol as well as to a large extent resistant to alkalis, acids and solvents.

**Test certificates**

**Test certificate** of the Berufsgenossenschaftlichen Institut f. Arbeitsschutz (BGI/A) Sankt Augustin/Germany on the non-skid capacities of floor coatings: **Rutschhemmung R10**.

■ **PRODUCT DATA**

GEHOPON-E27A, Comp. A

GEHOPON-E27A, Comp. B

**Product number**

E27A- (depending on colour)

EX-83D

**Mixing ratio**

6 parts by weight

1 part by weight

**Colour**

pebble grey approx. RAL 7032  
E27A-7532

whitely, paste-like

(other colours available on request)

**Degree of gloss**

Glossy

**Shelf life**

At least 12 months in original cans at normal temperature.

**Theoretical consumption**

0.6 to 0.8 kg/m<sup>2</sup> for a dry film thickness of approx. 0.5 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
Adhesive strength on concrete	≥ 2.5 N/mm <sup>2</sup> (fracture in concrete)
Ground conduction resistance according to EN 1081 and EN ISO 61340-4-1	R <sub>2</sub> ≤ 10 <sup>6</sup> (on electrically conductive coat)

Coating systems

System	non-skid roller coating	non-skid, electrically conductive roller coating
<b>Substrate</b>	<b>Concrete, cement screed</b>	
<b>Surface preparation</b>	For best results: ball blasting	
<b>Primer</b> Theoret. consumption:	GEHOPON-E175 or GEHOPON-E160 0.3 to 0.5 kg/m <sup>2</sup> or 0.4 to 0.6 kg/m <sup>2</sup>	
<b>Full-scale filler</b> Theoret. consumption:	GEHOPON-E175 or GEHOPON-E160 plus up to 100 % by weight quartz sand of the grain size 0.1 to 0.4 mm 0.4 to 1.0 kg/m <sup>2</sup>	
<b>Copper tapes</b>		Attach copper tapes and connect to ring line
<b>Conductive layer</b> (1 working operation) Theoret. consumption:		GEHOPON-EW11A-Leitlack, EW11A-9201 approx. 0.10 to 0.15kg/m <sup>2</sup>
<b>Coating</b> Theoret. consumption:	GEHOPON-E27A 0.6 to 0.8 kg/m <sup>2</sup>	

■ INSTRUCTIONS FOR APPLICATION

Substrate

The substrate must be dry, free of loose and sand-releasing parts, dust, cement slurry and other contaminants and must 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/mm<sup>2</sup>
- Residual moisture: < 2 % (measured according to CM method)

Surface preparation

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

**Processing conditions**

**Air and surface temperature** Minimum 10 °C, maximum 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-E27A thoroughly with the enclosed curing agent using a mechanical mixer for approximately 5 minutes until a homogenous and unclouded mixture is produced. Then pour into another container. After repeated stirring the material is ready for use.

**Remark:** Curing agent EX-83D is whitely paste-like.

**Application methods** GEHOPON-E27A is usually applied with a trowel and then scraped sharply over the silicon carbide tops. Finish by rolling with a moltopren roller.

**Cleaning of equipment** With thinner V-538

**Pot life** 30 to 60 minutes (depending on temperature)

**Waiting time between working operations**

	+ 10 °C	+ 20 °C	+ 25 °C
Minimum	24 h	12 h	8 h
Maximum	2 days	36 h	30 h

(Times relevant only if no sanding was made)

**Drying and curing time** Foot traffic after 12 to 16 hours.  
Full mechanical resistance and resistance to chemicals after 7 days, related to a temperature of 20 °C.

■ **CE LABELLING** CE Labelling in accordance with EN 13813

EC Declaration of conformity in accordance with EN 13813

■ **SAFETY MEASURES** 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](http://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.