LACK– UND KUNSTSTOFF– CHEMIE GMBH

TECHNICAL INFORMATION

GEHOPON-E66A

2C-EP Floor Coating
electrically conductive

■ FIELDS OF APPLICATION

GEHOPON-E66A is used to produce seamless floor coatings on mineral substrates such as concrete or cement screed, in combination with GEHOPON-EW11A-Leitlack it is possible to produce coatings of good electrical conductivity.

■ PRODUCT PROPERTIES

GEHOPON-E66A is a coloured two-pack coating material based on solvent-free epoxy resin.
Ground conduction resistance of the paint-system GEHOPON-EW11A-Leitlack and GEHOPON-E66A: < 10^6 Ω (measured according to EN 1081 and EN ISO 61340-4-1).

Cured coatings made of GEHOPON-E66A are resistant to compression and abrasion, highly resistant to mechanical stresses and they are trafficable.

Capacities

Cured GEHOPON-E66A is resistant to water, oil, petrol, saline solutions and aliphatic solvents and furthermore shows excellent resistance to alkalis.

Temperature resistance: up to 80 °C (dry), short term up to 120 °C
up to 40 °C (wet heat)
At temperatures above + 80 °C changes in colour are possible.

■ PRODUCT DATA

	GEHOPON-E66A, Comp. A	Curing agent, Comp. B
Product number	E66A-7532	EX-66
Mixing ratio	5 parts by weight	1 part by weight
Colour	pebble grey approx. RAL 7032 Other colours available on request.	
Degree of gloss	glossy	
Shelf life	At least 12 months in original cans at normal temperature.	
Consumption	2 to 2.5 kg/m² for a dry film thickness of approx. 1.5 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

D-76670 Graben-Neudorf PO-Box 1120 D- 76676 Graben-Neudorf Sofienstraße 36 Tel. +49 7255 99-0 Fax +49 7255 99-123
D-47005 Duisburg PO-Box 100529 D- 47249 Duisburg Obere Kaiserswerther Str. 18 Tel. +49 203 99707-0 Fax +49 203 99707-10

Parameter

Capacity	Value
Compressive strength	approx. 60 N/mm²
Tensile strength under flexion	25 to 30 N/mm²
Adhesive strength on concrete	≥ 2.5 N/mm² (fracture in concrete)
Shore-hardness D (DIN 53505)	ca. 85
Taber Abraser (DIN 53754) CS 10, 1000 U, 1000 g	approx. 40 mg
Ground conduction resistance*	< 10^6 Ω according to EN 1081 and EN ISO 61340-4-1

*for the coating system GEHOPON-EW11A-Leitlack and GEHOPON-E66A
(All statements depending on type and quantity of supplements.)

Coating systems

Substrate	Concrete, cement screed
Surface preparation	For best results: ball blasting
Primer Theoret. consumption:	GEHOPON-E175 or GEHOPON-E160 0.3 to 0.5 kg/m² or 0.4 to 0.6 kg/m²
Full-scale filler Theoret. consumption:	GEHOPON-E175 or GEHOPON-E160 plus 100 % by weight quartz sand of grain size 0.1 to 0.4 mm 0.4 to 1.0 kg/ m²
Copper tapes	Attach copper tapes and connect to ring line
Conductive layer Theoret. consumption:	GEHOPON-EW11A-Leitlack, approx. 0.10 to 0.15kg/m²
Coating Theoret. consumption:	GEHOPON-E66A 2 to 2.5 kg/m²
Eventual position: **Electrostatically conductive finish** Theoret. consumption:	WIEREGEN-M7A-Finish approx. 0.15 to 0.20 kg/m²

Alternative electrostatically conductive mat finish: GEHOPON-EW12A-Siegel, on basis 2-pack-epoxy resin, water-borne.

■ 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 (ZE 30)
- Adhesive strength: min. 1.5 N/mm²
- Conditions: clean, dry, dust-free and free of oil and grease

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 23 °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.

Comments on processing

Mixing

Mix GEHOPON-E66A 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

Application with a toothed scraper. e.g. Pajarito 48.
To improve spreading and to remove trapped air bubbles we recommend the use of spiked rollers.

It is not allowed to fill GEHOPON-E66A with additional quartz sand

Cleaning of equipment

With thinner V-538

Cured material must be removed mechanically.

Pot life

approx. 30 minutes (depending on temperature)

Drying and curing time

- Foot traffic after 24 hours.
- Mechanical resistant after 2 to 3 days
- Full resistance to mechanical and chemical stresses after 7 days
- Longer curing times at temperatures under 20 °C, faster curing at temperatures over 20 °C.

(Times relevant for 20 °C and 60 % relative humidity)

■ 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