HADALAN® GVS 12E

Primer, self-levelling and protective coating

These pictograms apply to the **basic product**.
Deviations are possible depending on the area of application and processing.

PRODUCT INFORMATION

Description

HADALAN® GVS 12E is an efficient, colored epoxy resin primer, levelling and protective coating for levelling compounds with excellent levelling properties and good adhesion to mineral substrates. The cured coating is highly resistant to many acids, alkalis, solvents, oils and greases.

Application

- for coating floor surfaces on concrete and screed surfaces subject to high mechanical and chemical loads
- by adding the filler combination HADALAN FGM003 57M in the color white, scratch coat compounds and self-levelling colored leveling compounds can be produced
- as a non-slip covering by scattering or mixing with appropriate additives

Operational area

- Multifunctional use as primer and synthetic resin mortar
- Industrial and commercial space
- Garages
- Warehouses
- Parking garages
- Underground garages
- Indoor floor areas

Properties

- fast and efficient system
- good mechanical resistance
- good chemical resistance
- low consumption
- good flow properties
- wide range of colors

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Technical Data

Available container sizes	24 kg/set 9 kg/combination container
Component A	16 kg / 6 kg Component A, resin
Component B	8 kg / 3 kg Component B, hardener
Mixing ratio	2 parts by weight component A : 1 part by weight component B
Density, ready to use	approx. 1,80 kg/l
Shore hardness (Shore-A)	approx. 81
Adhesive tensile strength on concrete	≥ 2,5 N/mm²
Processing temperature	+8°C to + 25°C
Processing time	approx. 20 – 30 minutes [1)]
Revisability	can be recoated and walked on after approx. 24 hours [1)]
Resilience	after approx. 7 days final strength [1)]
Storage	frost-free and cool, 12 months
Consumption	0.55 kg/m²/mm layer thickness as a flow coating (in a mixing ratio of 1 : 2.22 parts by weight HADALAN GVS 12E : HADALAN FGM003 57M)

[1)] At +20 °C and 60 % relative humidity

Chemical resistance* based on DIN EN 13529

Test medium	Resistance over a period of: 24 hours	4 days	7 days	15 days	32 days
Acetic acid 10 %					
Sodium hydroxide 20 %					
Ethanol/IPA 1:1					
White spirit					
Xylene					
Hydrochloric acid 20 %					
Sulphuric acid 20 %					
Diesel oil					
Skydrol					

*The chemical resistance depends on the concentration, the temperature and the exposure time. Soiling must be removed immediately.
Even with positive chemical resistance, changes to the surface, such as loss of gloss or discolouration, may occur. However, this does not affect the functionality of the material used.

SUBSTRATE

Properties/tests

- The substrate must be dry, solid, clean, dust-free, absorbent, load-bearing and free of separating agents, corrosive components or other layers that could interfere with the bond.
- In principle, the substrate must be suitable for the coating system.
- The adhesive tensile strength of the substrate must be at least 1.5 N/mm².
- The substrate moisture content for cementitious substrates must be < 4.0 CM%, anhydrite screeds: < 0.5 CM%.
- The compressive strength of the substrate should be at least 25 N/mm².
- The substrate must be protected against rising and penetrating moisture.

Preparation

- The floor surface must be prepared by e.g. dust-free shot blasting, diamond grinding, milling or other suitable measures. The grain structure must be exposed and all separating substances and loose components must be removed thoroughly. Substrates whose surfaces have been treated with smoothing agents (waxes) must always be removed by milling and subsequent shot blasting.
- Compatibility with old coatings must be checked, non-load-bearing layers and coatings must be completely removed.
- Asphalt-containing screeds are difficult substrates due to their deformability under mechanical and thermal stress. They can therefore only be coated with special systems. Please contact our technical service for more information.
- In the case of existing fixed tile coverings, the surface must be removed by diamond grinding or milling. The glaze must be completely removed.
- All substrate preparations must be carried out by suitable specialist companies.
- The product itself or HADALAN Pripor 12E must be used to prime the load-bearing substrate.
- In the case of existing roughness depths, carry out scratch filling or roughness depth compensation.
- Expansion joints must be incorporated into the top layer; reworking is not permitted.
- Depending on the color tone of the flow coating and high-contrast substrates, we recommend always preparing the substrate with a scratch leveler in the same color tone.

AREAS OF APPLICATION AND PROCESSING

Applying

- First stir up the resin component and add the hardener component completely to the resin component. Mix the components homogeneously using a slow-speed agitator (approx. 400 rpm with stirring paddle). The mixing time is 2 minutes. Ensure that no excessive air is stirred into the material. After homogeneous mixing, the material is poured into a clean container, HADALAN FGM003 57M in the color white is added and mixed again.
- The mixed leveling compound is then quickly spread over the substrate in an even layer using a squeegee or smoothing trowel.
- Finally, deaerate the material with the spiked roller in a crosswise motion.
- To adjust the flow properties in the lower temperature range, up to 2 % HADALAN EPV 38L can be added. Alternatively, the quantity of HADALAN FGM003 57M can be reduced by up to 30 %.

NOTES

Cleaning

- Clean tools immediately after use with HADALAN EPV 38L.

System products

- HADALAN® Pripor 12E
- HADALAN® FGM003 57M
- Quartz051 57M
- HADALAN® Topcoat M 12P
- HADALAN® Topcoat G 32P
- INTRASIT® DSM 54Z

To be observed

- Maintain a processing temperature of +8 °C to +25 °C.
- The application distances for multi-layer coatings must be observed.
- High temperatures accelerate, low temperatures delay the solidification and curing process.
- The substrate temperature must be at least 3 °C above the dew point temperature during application and curing.
- Epoxy resins are not permanently color stable.
- Pour the material out of the container immediately after mixing.
- Only use materials from one batch.
- With coating systems that can be applied by hand traces of application may remain visible This applies in particular to grazing light or larger contiguous areas, create a sample area if necessary.
- To maintain the surface quality of the coating, the use of care products and regular cleaning of the floors is recommended (see HADALAN epoxy resin flooring care instructions).
- Abrasive loads lead to white cracking on the surface. To reduce this, we recommend subsequently sealing the surface with a topcoat.

Ingredients

- Epoxy resin, Epoxy hardener
- functional fillers
- Pigments
- additives

Occupational safety / Recommendation

- Further information on safety during transportation, storage and handling can be found in the current safety data sheets. Detailed information can be found in the leaflet “Epoxy resins in the construction industry”, published by the Arbeitsgemeinschaft der Bau-Berufsgenossenschaften, Tiefbau-Berufsgenossenschaft, Industrieverband Klebstoffe e.V., Bauchemie und Holzschutz e.V. in Frankfurt.

Disposal

- The following applies to all systems: Only return empty containers to recycling partner Interseroh. Cured material residues can be disposed of in accordance with EWC code no. 08 01 11 (paint and varnish waste containing organic solvents or other hazardous substances).

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