

Epoxy roller coating, resistant to osmosis

With official test certificate



Characteristics

HADALAN® VS 12E is a pigmented epoxy resin coating with good adhesion on mineral substrates and steel. Once completely, set coating has good resistance to a large range of acids, alkali solutions, solvents, oil and grease.

The good chemical resistance is confirmed by appropriate test certificates as well as outstanding abrasion resistance according to DIN EN ISO 5470-1.

- Solvent-free
- Self-leveling
- Sets without shrinkage
- Highly abrasion resistant
- Good chemical resistance
- Various Slip Resistance Classes

Use

HADALAN® VS 12E is used for coating floor surfaces subject to high mechanical loads and chemical stresses.

As non-slip covering when dressed with or mixed with appropriate additives

As corrosion protection on structural steel which has been cleaned and the rust removed.

Applications:

- Concrete, steel
- Coverings in production halls, dairies, breweries, canneries, workshops, warehouses areas, underground garages, silo installations, sewage plants

Specifications

Packaging	Metal bucket
Combination pack	12.5 kg
Component A (resin)	10 kg
Component B (hardener)	2.5 kg
Supplied	42 packs/pal.
Colours	
Stone grey	approx. RAL 7030
Pebble grey	approx. RAL 7032
Further colours on request	
Working temperature	+5 °C to +30 °C
Density, ready-to-use	1.5 kg/l
Pot life at +20 °C	approx. 40 minutes
Overcoating ¹⁾	after approx. 24 hrs
Fully hardened ¹⁾	after approx. 5 days
Mixing ratio	4:1 by weight
Viscosity ¹⁾	15 dPas
Shore D hardness	83
Compression strength	approx. 69 N/mm ²
Bending tensile strength	approx. 35 N/mm ²
Surface tensile strength	>3.0 N/mm ²
Max. tensile strength	37.5 N/mm ²
Elongation at break after 8d	6 %
Abrasion loss (according to Taber: roll CS 10/1000 U/ 10000 g)	0.038 g
Storage	frost-free and cool, 12 months

Quantity required

Depending on application 0.2 – 1.0 kg/m²
For further information see table on next page.

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

Preparation of the surface

The substrate must be firm, dry, clean, free from dust, absorbent, resilient, and free from release agents, corrosive components or other layers interfering with bonding. The substrate must be generally suitable for the coating system. The adhesive tensile strength of the surfaces should not fall short of 1.5 N/mm². The substrate moisture of cement substrates should not fall short of < 4.0 parts by weight, anhydrite screeds: < 0-5 part by weight.

The compression strength of the substrate must be at least 25 N/mm².

The substrate must be protected from increasing and penetrating moisture. The floor surface has to be prepared by e.g. dust-free shot-blasting, diamond grinding, grinding or other suitable measures. The granular structure must be laid open and all separating substances and loose components must be removed consequently.

As a rule, substrates into whose surface agents (e.g. wax) have been incorporated for smoothing, must be removed by milling and subsequent shot-blasting. Check the compatibility with existing coatings; completely remove layers and coatings without load-bearing capacity. Screeds containing asphalt are difficult substrates due to their formability under mechanical and thermal load. Thus, they may be coated with special systems only. Please contact our technical service department.

Remove the surface of existing tiling being stuck by diamond grinding or milling. The glaze must be removed completely.

All substrate preparations have to be carried out by suitable specialist firms.

Application

1. Thoroughly mix the resin and the hardener in a suitable container with a slow running paddle.
Mixing ratio:
4 parts resin by weight: 1 part hardener by weight
2. Then transfer the mixture to a clean container and stir briefly again.
3. Application: when applying as a sealant a suitable short fibre roller (**hahne® epoxy roll 9ZH**) should be used with crosswise strokes with waiting times to avoid deposits.
4. For building up thick coats, e.g. self-levelling coats, use a smoothing tool or squeegee. Apply the material evenly and aerate with a spiked roller.
5. Clean work equipment with **HADALAN® EPV 38L** immediately after use.

Applications and amounts required

Anti-slip class R12 V4

1. Coat

HADALAN® VS 12E 0,5 kg/m²

Sanding whilst still wet with

Quartz051 57M 2,0 kg/m²

Sealant

HADALAN® VS 12E 0,6 kg/m²

The aforementioned consumption data applies only to substrates with compensated roughness depths. Pre-trials for determining exact consumption are recommended.

HADALAN® VS 12E



hahne system products

HADALAN® EPV 38L
HADALAN® EPUni 12E
HADALAN® FGM003 57M
HADALAN® EBG 13E
Quartz051 57M

Important notes

- Maintain a working temperature of +5 °C to +30 °C.
- Very oily areas and substrates where rising or horizontal penetrating damp is to be expected are not suitable for coating.
- Meets BIA specifications.
- During application and hardening the substrate temperature must be at least 3 °C above the dew point temperature.
- When applying more than one coat maintain the time interval between coats.
- To achieve the coating surface quality, it is recommended to use care products to clean the floors on a regular basis (see care instructions HADALAN® epoxy resin coatings).
- Grinding loads can lead to scratches in the material surface but the functionality of the remains unaffected.

Ingredients

Epoxy resin dispersion, functional fillers, pigments

Safety provisions/recommendations

Detailed information on safe transport, storage and handling can be found in the current safety data sheets.

Disposal

The local waste removal regulations must be observed.

Manufacturer

Sievert Baustoffe GmbH & Co. KG
Mühlenschweg 6, 49090 Osnabrück
Tel +49 2363 5663-0, Fax +49 2363 5663-90
hahne-bautenschutz.de, info-hahne@sievert.de

This information is based on extensive tests and practical experience. However, it cannot be applied to every type of application. If in doubt, we recommend that you test the product before using it. Due to continuous product improvement, this information is subject to change without notice. Our General Terms and Conditions apply. Version as of 12.2020