

High-speed primer and coating, rigid

Characteristics

HADALAN® Velo-Base is a special transparent, 2-component reaction resin based on aspartic acid ester in a viscous-hard version. Due to the special formulation, it reacts and hardens particularly quickly and enables rapid work progress with further system products.

- fastcuring
- osmosis-resistant
- solvent-free
- transparent
- tough hard
- good chemical resistance
- low odour during processing
- AgBB-compliant
- lightfast

Use

HADALAN® Velo-Base is used for priming and scratch filling mineral substrates in the **HADALAN® Velo-balcony** system.

It can also be used as a coating and binder for floor coatings and reaction resin mortars indoors and outdoors on concrete and screed surfaces.

Areas of application:

- balconies
- loggias
- arcades
- terraces
- mineral substrates
- commercial and industrial sectors
- underground garages

Specifications

package	tin bucket
container	10 kg / 3 kg
Component A	6 kg / 1.8 kg
Component B	4 kg / 1.2 kg
Mixing ratio	1.5 : 1
Working temperature (underground and air temp.)	+10 °C to +30 °C
Material temperature	+15 °C to +20 °C
Pot life	15 minutes
Density mixed	1.1 kg/l
Colour shade	transparent
Gloss level	shiny
Solid content	100 %
Revisable	after approx. 45 minutes*
Accessible	after approx. 60 minutes*
Through-hardened	after approx. 90 minutes*
Fully loadable	after approx. 48 hours*
Storage	frost-free, 6 months

* The data refer to the consumption quantities as a primer. With higher layer thicknesses the times are delayed by approx. 30-60 minutes.

Quantity required

As a primer	0.3 - 0.5 kg/m ²
As a levelling compound	
Mixing ratio 1:1 GT	
HADALAN® Velo-Base	approx. 0.90 kg/m ² /mm layer thickness
HADALAN® FGM003 57M	approx. 0.90 kg/m ² /mm layer thickness
As reaction resin mortar	
Mixing ratio 1:10 GT	
HADALAN® Velo-Base	approx. 2.00 kg/m ² /cm layer thickness
HADALAN® FGM012 57M	approx. 20.00 kg/m ² /cm layer thickness
As reaction resin mortar	
Mixing ratio 1:13 GT	
HADALAN® Velo-Base	approx. 1.60 kg/m ² /cm layer thickness
HADALAN® FGM012 57M	approx. 20.80 kg/m ² /cm layer thickness

Preparation of the surface

The substrate must be solid, clean, dust-free, absorbent, load-bearing and free from separating agents, corrosion-promoting components or other layers interfering with the bond. The substrate must be suitable for the coating system. The surface tensile strength must not be less than 1.5 N/mm². The moisture content of the zone near the surface (approx. 3.0 cm) must not exceed the compensation moisture of the building materials. Concrete and cement screed: < 6 CM% Anhydrite screeds: < 0.5 CM%. The substrate must be protected from the effect of pressurised water from the subfloor. The compressive strength of the substrate must be at least 25 N/mm². 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 consistently removed. Substrates in which superficial smoothing aids (waxes) have been incorporated 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 removed completely. Asphalt-containing screeds are difficult substrates due to their deformability under mechanical and thermal load. 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 removed completely.

All substrate preparations must be carried out by suitable specialist companies.

Application

Application as a primer:

1. The entire hardener component is added to the resin component. Mix the components homogeneously with a suitable stirrer (approx. 400 rpm) with DLX stirrer. The mixing time is at least 1 minute. The little mixed components adhering to the vessel wall, the bottom as well as the stirrer are to be scraped off and added to the mixed material. Then transfer the material into a clean mixing vessel (repot) and mix completely again.
2. After mixing, **HADALAN® Velo-Base** is applied evenly and film-forming to the substrate to be primed using a special polyamide roller for floor coatings or a suitable tool. If there is a risk of moisture penetration from the rear or expected water vapour diffusion, the primer must be applied in a film-forming and non-porous manner. If necessary, apply the primer in two coats.
3. As scratch filler or roughness compensation, **HADALAN® Velo-Base** can be filled with **HADALAN® FGM003 57M** in a mixing ratio of 1:1 GT and applied. If necessary and in the case of high-contrast substrates, the colour of the primer/scratch filler should be matched to the subsequent coating.
Add two bags of **HADALAN® ColourPowder** to a 10 kg container and one bag of **HADALAN® ColourPowder** to a 3 kg container.
The coating work is to be carried out exclusively with one container unit. Changing the container units on the surface can lead to differences in colour shade.
4. The applied layers must be recoated within 24 hours. In case of longer waiting times, the hardened primer/scratch filler must be prepared again by sanding to make it load-bearing.

Application

Application as a coloured flow coating:

1. Before mixing the two resin components, the colour pigment **HADALAN® ColourPowder** is stirred into the resin component (Comp. A) using a suitable stirrer (approx. 400 rpm) with DLX stirrer without leaving streaks. Add two bags of **HADALAN® ColourPowder** to a 10 kg container. Add one bag of **HADALAN® ColourPowder** to a 3 kg container. The coating work is to be carried out exclusively with one container unit. Changing the container units on the surface can lead to differences in colour shade. Subsequently, the entire hardener component (Comp. B) is added to the resin component (Comp. A) and mixed homogeneously with the above mentioned stirrer recommendation. The mixing time is at least 1 minute. The little mixed parts adhering to the vessel wall, the bottom as well as the stirrer are to be scraped off and added to the mixed material. Then transfer the material into a clean mixing vessel (repot), add the filler **HADALAN® FGM003 57M** in the colour shade white and mix completely again.
2. The mixed levelling compound is then quickly spread on the substrate in an even layer by means of a squeegee or smoothing trowel. Immediately deaerate the fresh layer using a metal spiked roller.

Application as a reaction resin mortar:

1. Mix **HADALAN® Velo-Base** as described above.
2. Then add the filler **HADALAN® FGM012 57M** and mix intensively with the MK stirrer until completely mixed.
3. The surface to be treated is first primed with **HADALAN® Velo-Base**.
4. The reaction resin mortar is applied fresh in fresh to the fresh adhesive layer and smoothed.

General:

Due to the fast reaction time of the material, it is important to process the material quickly. We recommend planning at least three employees for the application. For larger areas, more employees should be planned. Larger areas should be divided into sections. Tools should be cleaned regularly with **HADALAN® EPV 38L** or replaced. Only prepare as much material as can be applied within the pot life.

In case of contrasting colours/substrates, we recommend applying the primer/scratch coat in the same colour shade as the flow coat. The substrate must be matched in colour.

hahne system products

HADALAN® Velo-Seal
HADALAN® Velo-Flex
HADALAN® ColourPowder
HADALAN® ColourChips 89V
HADALAN® KG 57DD
HADALAN® EPV 38L
HADALAN® FGM012 57M
HADALAN® FGM035 57M

Important notes

- The coating intervals of max. 24 hours must be observed.
- High temperatures and high humidity accelerate, low temperatures and low humidity delay the solidification process.
- The substrate temperature must be at least 3 °C above the dew point temperature.
- Das Material zügig verarbeiten.
- Processing beyond the pot life will change the surface appearance of the coating.
- Only use materials from one batch.
- In the case of connected surfaces, colour deviations do not constitute a defect.
- In the case of coating systems that can be laid by hand, traces of the laying process may remain visible. This applies in particular to grazing light or larger connected areas; if necessary, create a sample area.
- To maintain the surface quality of the coating, it is recommended to use care products and to clean the floors regularly (see care instructions **HADALAN®** epoxy resin floorings).
- Abrasive loads lead to white fracture on the surface.
- To assess the surface, sample surfaces should be created under actual object conditions, if necessary.

Ingredients

2K reactive resin based on aspartic acid ester, additives

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

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HADALAN® Velo-Base

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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.
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