

High-speed waterproofing and wearing course

Characteristics

HADALAN® Velo-Seal is a 2-component reaction resin in a flexible version. Due to the special formulation, it reacts and hardens particularly quickly and enables rapid work progress with further system products.

- very fast
- solvent-free
- UV-stable
- flexible

Use

HADALAN® Velo-Seal is used as a waterproofing and wearing layer in the **HADALAN® Velo** balcony system. The material is coloured on site by mixing in **HADALAN® ColourPowder**.

Areas of application:

- balconies
- loggias
- arcades
- terraces
- mineral substrates

Specifications

Packaging	Tin bucket
Container	13 kg
Component A	8 kg
Component B	5 kg
Mixing ratio	1.6 : 1
Working temperature (substrate and air temp.)	+10 °C to +30 °C
Material temperature	+15 °C to +20 °C
Pot life	15 minutes
Density mixed	1.4 kg/l
Colour shade	at choice
Gloss level	shiny
Solid content	100 %
Recoatable	after approx. 5 hours*
Walkable	after approx. 6 hours*
Fully cured	after approx. 12 hours*
Fully loadable	after approx. 3 days*
Storage	frost-free, 6 months

Quantity required

2.0 mm layer thickness	2.9 kg/m ²
Waterproofing and wear layer	

*At +20 °C and 60 % relative humidity.

Lower temperatures delay the setting times.

Preparation of the surface

The substrate must be load-bearing, clean and free of cracks and separating substances. Dirt, separating agents, oils, mortar residues, old coats of paint, etc. must be removed by shot-blasting, milling or sandblasting. The residual moisture content of the substrate must not exceed 4 % by weight. The adhesive tensile strength of the substrate must be at least 1.5 N/mm².

The substrate is prepared with the primer **HADALAN® Velo-Base**. The technical data sheet of **HADALAN® Velo-Base** must be observed.

As a membrane layer in the **HADALAN® Balcony Protection System**, **HADALAN® EBG 13E** is to be used as a levelling compound in 2 mm layer thickness. The material can be applied on damp substrates and serves as a vapour levelling layer. The subsequent layer of **HADALAN® Velo-Seal** can be applied on the thoroughly dried layer of **HADALAN® EBG 13E** without any further contact layer (quartz). Before starting the coating work, the substrate must be surface dry. Moisture on the substrate will lead to blistering and/or adhesion problems. Existing expansion joints must be prepared for the coating work (installation of expansion joint profiles or similar). They must be incorporated into the waterproofing layer. Pre-treat substrates made of plastic or metal with **HADALAN® HV Uni 30DD**.

Application

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 a DLX stirrer Ø 120 mm without leaving streaks. Then the entire hardener component (Comp. B) is added to the resin component (Comp. A) and mixed homogeneously. The mixing time is at least 2 minutes. 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 to a clean mixing vessel (repot) and mix completely again.
2. After mixing, the connection areas, penetrations, etc. are coated first.
3. **HADALAN® Velo-Seal** is then evenly distributed with the Toothed Bar Special 48 in a layer thickness of 2 mm. Immediately deaerate the fresh coat using a metal spiked roller.

Design with colour chips:

HADALAN® ColourChips 89V are sprinkled by hand into the fresh coating of **HADALAN® Velo-Seal** in the desired coverage using a sprinkling cup or chip gun. After drying, the surface is sealed with **HADALAN® Velo-Flex** transparent.

Design with natural stone trowel finish:

With the binder **HADALAN® BM2K 12P**, the natural stone trowel finish with the marble grain **HADALAN® MST 89M** can be applied directly to the waterproofing layer **HADALAN® Velo-Seal**. If the marble **HADALAN® MST 89M** is made with the 1-comp. binder **HADALAN® LF68 12P**, after the waterproofing layer **HADALAN® Velo-Seal** has dried, an adhesive layer with **HADALAN® Velo-Base** is applied and sanded with Quartz051

Application

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.

The applied layers must be recoated within 24 hours.

If subsequent coats cannot be applied according to the specifications, a primer coat of **HADALAN® HV Uni 30DD** adhesion promoter is required.

For uni-coloured surfaces, only use complete container units. Partial quantities may lead to colour deviations.

hahne system products

HADALAN® Velo-Base
HADALAN® Velo-Flex
HADALAN® ColourPowder
HADALAN® ColourChips 89V
HADALAN® KG 57DD
HADALAN® MST 89M

Important notes

- Maintain a working temperature of +10 °C to +30 °C.
- Avoid direct sunlight.
- 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.
- Process the material quickly.
- Processing beyond the pot life will change the surface appearance of the coating.
- Only use materials from one batch.
- 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.
- Um die Oberflächenqualität der Beschichtung zu erhalten, empfiehlt sich der Einsatz von Pflegemitteln und die regelmäßige Reinigung der Böden (siehe Pflegeanleitung **HADALAN®** Epoxidharzbeläge).
- Abrasive loads lead to white fracture on the surface.
- In case of overcoating with **HADALAN® MST 89M** or a covering sprinkling with **HADALAN® ColourChips 89V** in excess, we recommend matching the colour shade of the waterproofing **HADALAN® Velo-Seal** to the marble stones or respective sprinkling.

Ingredients

2K reactive resin based on aspartic acid ester, functional fillers, 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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