

## Epoxy roller coating, resistant to osmosis, elastic



### Characteristics

**HADALAN® VS 12E** is a pigmented, elastified epoxy resin coating with good adhesion on mineral substrates and steel.

The material hardens without shrinkage, does not contain any solvents and is thus also suitable for use indoors.

The hardened coating has good resistance to many acids, alkalis, solvents, oil and grease.

- Solvent-free
- Elastic
- Hardens completely without shrinking
- Abrasion resistant
- Good resistance to chemicals

### Use

**HADALAN® VS-E 12E** for coating of floor surfaces subjected to high mechanical and chemical stress. For coating substrates that can be deformed and are in danger of shrinkage cracking. As slip-resistant lining by scattering quartz sand additives.

As corrosion protection paint on exposed and rust-cleaned structural steel.

### Areas of application:

- Concrete, screed, cement plaster, brickwork and steel
- Cast asphalt in the indoors

### Specifications

|  |                                |
|--|--------------------------------|
| Packaging  | Tin bucket                     |
| Combination barrels  | 10.5 kg                        |
| Component A, resin   | 7.5 kg                         |
| Component B, hardener  | 3.0 kg                         |
| Delivery form  | 42 barrels/pallet              |
| Colour shade pebble grey                                       | approx. RAL 7032               |
| Density, ready for processing                                  | 1.4 kg/l                       |
| Application temperature  | +5 °C to +30 °C                |
| Pot life at +20 °C   | approx. 45 minutes             |
| Overworkable <sup>1)</sup>                                     | after approx. 24 hours         |
| Capable of being fully loaded <sup>1)</sup>                    | after approx. 5 days           |
| Mixing ratio   | 5 : 2 parts by weight          |
| Viscosity when touched <sup>1)</sup>                           | 16 dPa.s                       |
| Elongation at rupture (8d)                                     | 43 %                           |
| Max. tensile strength (8d)                                     | 11.3 N/mm <sup>2</sup>         |
| Shore D hardness   | 66                             |
| Abrasion loss (according to Taber: roll CS 10/1000 U/ 10000 g) | 0,82 g                         |
| Storage  | frost-free and cool, 12 months |

### Quantity required

|                   |  |
|-------------------|--|
| Roller coating    | 0.8 - 1.0 kg/m <sup>2</sup> with 2 coats |
| Levelling coating | 2.0 - 3.0 kg/m <sup>2</sup>              |

<sup>1)</sup> At +23 °C and 60 % relative atmospheric humidity.

## Preparation of the surface

Cement-bound surfaces must be dry, loadable, afford a good grip, be free of stillage, dust, loose parts, free of oil, grease and other impurities that could work as separators.

If necessary: Pre-treat the substrate with sand, granulate, high-pressure water or flame cleaning, milling or grinding.

The concrete humidity must be < 4%.

Use **HADALAN® EPUni 12E** or **HADALAN® EBG 13E** for substrate hardening. Apply subsequent coats after 6 to 24 hours.

The danger of moisturing through the rear side should be eliminated.

Cast asphalt surfaces in the indoors must have the quality ICH 10 to IC 15. Other cast asphalts, surfaces with varying thermal loads, outdoors surfaces as well as areas with increased dynamic load absorption are not suitable for the coating.

Basically, all substrates must have a minimum adhesive tensile strength of 1.5 N/mm<sup>2</sup>.

Test surfaces should be created for particularly stressed surfaces.

## Application

1. Mix the resin and hardener in a suitable container with a slow-speed drilling machine with an agitator basket.  
Mixing ratio:  
5 parts by weight of resin : 2 part by weight of hardener:
2. Subsequently, refill the mass in a clean container and stir it up briefly.
3. The coating is applied with a foam roller, smoothing trowel or blade. For better aeration, re-work with a spiked roller.
4. For achieving slip-resistant coatings, in the 1st coat, spread **Quartz0105 57M** absolutely uniformly and with good coverage. Scatter again after approx. 5 minutes. After approx. 24 hours, sweep away the excess quartz sand. An integrated quantity of sand remains, approx. 1.5 kg/m<sup>2</sup>.
5. Treat the surface with the 2nd coat of **HADALAN® VS-E 12E**.
6. Clean all the working equipment after use with **HADALAN® EPV 38L**.

## hahne system products

HADALAN® EPV 38L  
HADALAN® EPUni 12E  
HADALAN® EBG 13E  
Quartz0105 57M

## Important notes

- Maintain the processing temperature of +5 °C to +30 °C.
- Intensely oil-coated surfaces and substrates, with which increasing and laterally penetrating moisture is to be expected, are suitable for the coating.
- Conforms to the requirements of the BIA.
- Do not apply if there is condensing humidity. Accordingly, the material temperature and the ambient temperature must be at least 3 °C above the dew point temperature.
- To maintain the surface quality of the coating, the use of care products and regular cleaning of the floors are recommended, (see care instructions, HADALAN® epoxy resin linings). Grinding loads can result in scratching of the material surface. The functional ability is retained as it was.
- To achieve uniform surfaces, the coating is applied with a suitable short-fibre roller for epoxy resins. The coat is applied cross-wise. Wait times during the processing can result in projecting appendages.

## Ingredients

Epoxy resin/hardener, functionally filling materials, pigments

## Safety provisions/recommendations

Information regarding the safety during transport, storage and handling are included in the updated safety data sheets.

## Disposal

The local waste removal regulations must be observed.

## Manufacturer

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