

Adhesive layer for gravel and grits



Characteristics

HADALAN® KS 13P is a solvent-free 2-component polyurethane resin with excellent penetration, adhesive and binding properties.

- Solvent-free
- Low viscosity
- Resistant to chemicals
- Accepts a mechanical load
- High adhesive tensile strength
- Fast-setting
- Elastic

Use

HADALAN® KS 13P is used on outside areas to produce scatter coverings on top of concrete and asphalt surfaces. The material closes up micro cracks in the substrate and protects the ground long-term from external influences. Gravel, chippings and similar scattering materials are permanently fixed to the substrate. The result is a decorative and, depending on the grain size used, slip-free surface even for surfaces which will later be open to traffic.

Areas of Application:

- Outdoors and indoors
- Concrete and asphalt surfaces
- Paths, cycle paths, car parks, driveways

Specifications

Packaging	Tin drum
Combi drum	9 kg
Component A, resin	6 kg
Component B, hardener	3 kg
Delivery	42 drums per pallet
Mixing Ratio A + B	2 : 1 by weight
Density, ready to use ¹⁾	1.09 kg/l
Viscosity, ready to use ¹⁾	17 dP*s
Working temperature	+10 °C to +30 °C
Processing time ¹⁾	approx. 30 minutes
Walkable	after 24 hours
Capable of taking up loads	after 3 days
Tensile strength n. 28d ¹⁾	approx. 18.7 N/mm ²
Elongation at break n. 28d	approx. 120 %
Adhesive tensile strength on concrete n. 14d ¹⁾	> 4.7 N/mm ²
Storage	frost-free and cool, 12 months

Quantity required

Adhesion layer	approx. 0.8 kg depending on substrate
System product HADALAN® Granit 59M	approx. 4 kg in excess the volume bonded is approx. 2.5 kg

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

Preparation of the surface

The surface (substrate) must be dry, dust-free and free of any substance which may prevent good adhesion. Fresh asphalt and concrete can be covered after 28 days. Pre-treat any cracks. Any expansion joints must be integrated into the top surface covering. Asphalt surfaces can be treated directly. There must be no risk of any rising damp in the substrate. Those substrates where moisture could still penetrate from underneath must be pre-treated with **HADALAN® EG145 13E**.

Application

1. Mix components A + B thoroughly with a mechanical mixer/agitator (300-400 revs.) into a homogeneous mix (2 minutes stirring time). Put the material into another pot and stir through once more.
2. Pour **HADALAN® KS 13P** quickly on to the substrate and spread it homogeneously (evenly) with a squeegee and a **Polyamidwalze Spezial**. As an alternative, on an even surface, you can use a fine toothed blade/serrated trowel, e.g. TKB S3. Only apply enough adhesive coating which you can process together with scattering materials (chippings, gravel) within a processing time of 30 minutes.
3. Then scatter/strew **HADALAN® Granit 59M** evenly in excess, i.e. more than you need - over the fresh adhesion layer; continue as required until the surface begins to harden.
4. The following day the excess grains can be swept off.

Processing as a mortar:

- Mix the filler **HADALAN® FGM012 57M** in a mixing ratio 1:20 homogeneously into the pre-mixed mass **HADALAN® KS 13P**. Only mix in as much material as you can process within 30 minutes. The material is then embedded into (filled into) the fresh adhesive layer.

The surface can be walked on after 24 hours and can take a full load after 3 days. Clean your tools immediately after use with **HADALAN® EPV 38L**. Material on the tools which has gone hard can only be cleaned off mechanically.

hahne system products

HADALAN® Granit 59M
HADALAN® FGM012 57M
HADALAN® EPV 38L
HADALAN® EG145 13E

Important notes

- Maintain the processing temperature.
- High temperatures accelerate the bonding process and low temperatures retard it.
- Make sure you have excluded the possibility of rising moisture.
- Protect the fresh scatterings from moisture before the surface has hardened.
- In practice, the quality of asphalt can vary enormously. Test the product on a test surface as required.

Ingredients

Polyurethane resin and hardener, additives, 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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