



HADALAN® KS 13P

Adhesive layer for grit and gravel



These pictograms apply to the **basic product**.
Deviations are possible depending on the area of application
and processing.

PRODUCT INFORMATION

Description

HADALAN® KS 13P is a solvent-free 2-component polyurethane resin with excellent penetration, bonding and binding properties. HADALAN® KS 13P even closes existing microcracks in the substrate and thus protects against new damage. Virtually all chippings, gravel and even colored sands are suitable as bedding materials, which, in addition to their decorative effect, offer the surface lasting protection.

Application

- for the production of outdoor bedding coverings on concrete and asphalt surfaces
- fixes gravel, chippings, etc. Grit is permanently fixed to the substrate
- for the production of decorative, wear-resistant floor coverings, depending on the grain size used, also for trafficable areas

Operational area

- multifunctional use as **primer** and **coating**
- Concrete and asphalt surfaces
- Footpaths, cycle paths, parking lots, driveways

Place of use

- for outdoor and indoor areas

Properties

- solvent-free
- low viscosity (controlled flow)
- chemical-resistant
- mechanically resilient
- high adhesive tensile strength
- fast-setting
- elastic



Technical Data

Available container sizes	9 kg/combination container
Component A	6.0 kg resin
Component B	3.0 kg hardener
Mixing ratio	2 : 1 parts by weight
Density, ready to use	approx. 1.09 kg/l
Mixing viscosity	approx. 17 dPa·s ¹⁾
Processing temperature	+10°C to +30°C
Processing time	approx. 30 minutes
Walkability	after approx. 24 hours ¹⁾
Resilience	fully loadable after approx. 3 days ¹⁾
Tensile strength	approx. 18.7 N/mm ²
Elongation at break	approx. 120 %
Adhesive tensile strength on concrete	> 4.7 N/mm ²
Storage	frost-free and cool, 12 months
Consumption	approx. 0.8 kg/m ² as adhesive layer
¹⁾ At +20 °C and 60 % relative humidity	

SUBSTRATE

Properties/tests

- The substrate must be dry, dust-free and free of all separating substances.
- New asphalt and concrete can be covered after a waiting period of 28 days.

Preparation

- Cracks must be pre-treated.
- Expansion joints must be incorporated into the top layer.
- Asphalt surfaces can be treated directly.
- Rising damp in the substrate must be ruled out. Substrates where moisture penetration from the rear cannot be ruled out must be pretreated with HADALAN EG145 13E.

AREAS OF APPLICATION AND PROCESSING

Applying

- Components A + B are homogeneously mixed together using a mechanical agitator (300 – 400 rpm) (2 minutes stirring time). The mixed material is then repotted and stirred again.
- Pour HADALAN KS 13P quickly onto the substrate and spread homogeneously with a water scraper and polyamide roller special. Alternatively, a fine toothed strip, e.g. TKB S8, can be used on flat surfaces. Only apply as much adhesive layer as can be covered with bedding material within the working time of 30 minutes.
- The grit is spread evenly in excess into the fresh adhesive layer. It may be necessary to continue spreading until the adhesive starts to harden.
- The excess grit can be swept off the next day.
- **Processing as mortar:**
The filler HADALAN FGM012 57M is homogeneously mixed into the previously mixed HADALAN KS 13P compound at a ratio of 1:20. Only mix as much material as can be processed within 30 minutes. The material is then smoothed into the fresh adhesive layer.

Drying / Follow-up work

- The surfaces can be walked on after 24 hours and are fully loadable after 3 days.

NOTES



■ **Cleaning**

- Clean tools immediately after use with HADALAN EPV 38L.
- Hardened material can only be removed mechanically.

■ **System products**

- HADALAN® FGM003 57M
- HADALAN® FGM012 57M
- HADALAN® EPV 38L
- HADALAN® EG145 13E
- Quartz051 57M
- HADALAN® ColourPowder

■ **To be observed**

- Maintain a processing temperature of +10 °C to +30 °C.
- High temperatures accelerate, low temperatures delay the solidification and curing process.
- Rising damp must be excluded.
- The fresh bedding layer must be protected from moisture until it has hardened.
- Asphalt qualities can vary greatly in practice. Test areas should be created if necessary.

■ **Ingredients**

- Polyurethane resin and hardener
- Additives
- Pigments

■ **Occupational safety / Recommendation**

- Further information on safety during transportation, storage and handling can be found in the current safety data sheets.

■ **Disposal**

- The following applies to all systems: Only return empty containers to recycling partner Interseroh. Cured material residues can be disposed of in accordance with EWC code no. 08 01 11 (paint and varnish waste containing organic solvents or other hazardous substances).

■ **Producer**

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The statements are made based on extensive tests and practical experiences. They cannot be applied to every application case. Therefore, we recommend carrying out application trials if necessary. Subject to technical changes in the course of further development. Furthermore, our General Terms and Conditions of Business apply.