

Sealing layer for waterproofing balconies, loggias and access walkways



Characteristics

HADALAN® DS91 13P is a two-component sealing compound based on polyurethane resin. Once completely hardened, it provides an elastic resistant and cold-flexible coating. The material can be used for balcony sealing according to DIN 18531-5 as a certified sealing layer according to ETAG 005 without a fleece-reinforcing core. Other applications result from its being free of solvents and resistant.

- Cold flexible
- Can be used without a fleece reinforcing core
- Crack-bridging
- Solvent-free
- Permits water vapour diffusion

Use

HADALAN® DS91 13P is used as a sealing coating on mineral and ceramic substrates on balcony and terrace surfaces. According to DIN 18531-5, a fleece reinforcing core is not required; thus seamless and barrier-free sealing layers can also be installed in connecting and detail areas. **HADALAN® DS91 13P** is a system product that can be used as sealant on **HADALAN® EBG 13E** also on critical substrates. For the working surface, various systems are available as surface covering

Application areas:

- Balcony and terrace surfaces
- Access walkways, loggias
- concrete and screed surfaces
- Outside staircases
- Sealing as per DIN 18531-5
- Connection areas

Specifications

Packaging	Tin bucket/tin btl.
Combi package/mixed package	13 kg / 4 kg
Component A	11.7 kg / 3.6 kg
Component B	1.3 kg / 0.4 kg
Delivery form	42 / 56 cont./pal.
Processing temperature (air, substrate, product)	+10 °C to +30 °C
Processing time ¹⁾	about 20 minutes
Density ¹⁾	1.2 kg/l
Solid content	96 %
Viscosity, ready to use ¹⁾	about 80 dPa.s
Colour tone	Grey
Mixing ratio in GT	9 : 1
Re-workable ¹⁾	>24 h
Elongation at rupture ¹⁾	>500 %
Adhesive strength	>2 N/mm ²
μ-value	1,700
Storage	cool, 9 months

Quantity required

Per mm layer thickness	about 1.2 kg/m ²
Recommended layer thickness acc. to DIN 18531-5 2 mm	about 2.4 kg/m ²

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

Preparation of the surface

The substrate must have a capacity to bear load, and be clean and free of cracks and separating substances. Dirt, separators, oils, mortar residues, old coatings etc. must be removed by means of shot blasting, grinding or sandblasting. The residual humidity content of the substrate must not exceed 4% by weight. The adhesive strength of the substrate must be at least 1.5 N/mm². As membrane layer within the **HADALAN®** balcony protection system, **HADALAN® EBG 13E** has to be used as a levelling compound in a layer thickness of 2 mm. The material can be applied on humid substrates and serves as a waterproofing layer. The following **HADALAN® DS91 13E** layer can be applied on the fully dried **HADALAN® EBG 13E** layer without another contact layer (quartz).

The surface of the substrate must be dry before coating work commences. Humidity on the substrate will result in bubble formation and/or adhesion problems. Existing expansion joints must be prepared for the coating work (by fitting expansion joint profiles or similar). These must be incorporated into the sealing layer.

Application

1. The hardener component is completely poured into the resin component. Using a slow-running stirring tool (about 400 rpm) with agitator, the components are mixed homogeneously. The mixing time is at least 2 minutes.
 2. Then, the material is moved into a clean mixing vessel and once again, briefly mixed thoroughly. This work phase is required, since not homogeneously mixed material (from the walls of the container or the stirring paddle) produces damage to the sealing (material does not cure, remains sticky).
 3. After stirring, the adjoining areas, penetrations, etc. are coated first.
 4. Then **HADALAN® DS91 13P** is evenly applied with a layer thickness of 2 mm using the serrated blade Spezial 48. Using mohair rollers for the upstand area is appropriate.
 5. For coating inclined and vertical surfaces, stability can be increased by adding **HADALAN® SM 57DD**. For this purpose, 1 - 2 litres of **HADALAN® SM 57DD** are added to 4 kg of **HADALAN® DS91 13P** and mixed thoroughly.
- 6.1 **Single-colour design:**
HADALAN® DS91 13P is coated in colour with **HADALAN® PUR Top 32P** after drying.
 - 6.2 **Design with color chips**
HADALAN® DS91 13P is applied in colour with an adhesive layer with **HADALAN® PUR Top 32P**. **HADALAN® ColorChips 89V** are sprinkled by hand into the fresh coating by means of a hopper or a Chiron fan.
After drying, the surface is sealed with **HADALAN® PUR Top 32P** transparent
 - 6.3 Design with natural stone spatula-applied covering
HADALAN® DS91 13P is applied in colour with an adhesive layer with **HADALAN® PUR Top 32P** and sanded down with **Quartz0105 57M**. (This process can be significantly accelerated with the **HADALAN® BPT 37DD** accelerator so that the adhesive layer can be overworked after approx. 20 minutes.)
Apply **HADALAN® MST 89M** according to the processing instructions and the technical data sheet.

Recoating

If subsequent covering coats cannot be applied according to the specifications between 24 and 48 hours, a primer coat of **HADALAN® HV Uni 30DD** adhesion promoter is required after a standing time of more than 48 hours.

hahne system products

HADALAN® Balkenschutz-Systeme
HADALAN® BPT 37DD
HADALAN® HV Uni 30DD

Important notes

- Maintain the processing temperature of +10 °C to +30 °C.
- Acclimate / store the material at room temperature >+14 °C for at least 24 hours before processing.
- **HADALAN® PUR** reaction resins are reactive to humidity. For that reason, these materials must be protected from humidity until they are completely hardened. The substrate to be coated must be dry on the surface.
- High temperatures accelerate and low temperatures delay the progress of hardening.
- Usage of partial quantities will eventually result in considerable colour variations.
- Adhere to the coating intervals.
- Adding the **HADALAN® BPT 37DD** accelerator (max. 2 %) is exclusively permitted when designing with natural stone spatula-applied coverings.
- Work equipment can be cleaned when fresh with **HADALAN® EPV 38L**. After the drying is complete, cleaning is only possible mechanically.
- Please see the “Renovating, coating and decorative design with **HADALAN® PUR liquid plastics**“ processing instructions for further information.
- Avoid direct sunlight during processing and curing.

Ingredients

Polyurethane resin, functional 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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