

1-comp. solvent-free polyurethane resin as bonding agent for natural stone and decorative quartz linings for indoors and outdoors

With official test certificate

Characteristics

HADALAN® LF68 12P is a 1-comp., rigid and light-resistant polyurethane resin. It is odourless, hardens with the atmospheric humidity, and a bonding agent film with very good weathering resistance and abrasion resistance develops. The especially dense film surface develops very easy-to-clean linings with low soiling tendencies.

- Odourless
- Low consumption
- Solvent-free
- Light-resistant
- Transparent
- Softener-resistant
- Easy to process

Use

Mix **HADALAN® LF68 12P** with **HADALAN® MST 89M** or **HADALAN® Decorquartz 89M**. Light-resistant, rigid, decoration linings for indoor and outdoor use result.

As bonding agent for sand fractions to manufacture drainage-capable joint mortar. For bonding gravel in the gardening sector and landscape work.

- Indoor spaces and outdoor surfaces
- Access walkways
- Salesrooms, exhibition and storage rooms
- Concrete and screed surfaces

Specifications

Packaging	Tin bucket./PU bottle
Barrel	30 kg/5 kg/1.25 kg
Delivery form	12/72 units/pallet 18x1.25 kg/carton
Processing temperature	+8 °C to +30 °C
Processing time ¹⁾	Approx. 60 minutes
Density ¹⁾	1.15 kg/l
Viscosity ¹⁾	Approx. 6.0 dPa s
Colour shade	Transparent
Proportion of solids	Approx. 100 %
Can be walked on carefully ¹⁾	After approx. 8 hours
Fully hardened and accessible ¹⁾	After approx. 2 days
Compressive strength	
5% -LF68 12P on -MST 89M	17 - 20 N/mm ² after 7d
Bending tensile strength	4.5 - 6.0 N/mm ²
Storage	Cool, 6 months

Quantity required

As binder	
for -MST 89M (2-4 mm)	approx. 5% by weight
for -MST 89M (4-8 mm)	approx. 3.5% by weight
for -Decorquartz 89M	approx. 6% by weight

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

Preparation of the surface

The substrate must be dry, have load bearing capacity, be free of dust, dirt, and free of other adhesion-reducing substances. As a primer and substrate solidifying agent, apply **HADALAN® EG145 13E** (alternative: **HADALAN® EPUni 12E**) across the entire surface. Scatter **Quartz051 57M** with 50% coverage into the fresh primer. Drying time 1 day.

Application

1. **HADALAN® MST 89M** (2-4 mm) is mixed with 5 weight % **HADALAN® LF68 12P**.
HADALAN® MST 89M (4-8 mm) is mixed with 3.5 weight % **HADALAN® LF68 12P**.
HADALAN® Decorquartz 89M with a proportion of 6%.
To do so, the bonding agent is mixed intensely with the granulation with a slow-rotating stirrer and agitator (approx. 400 rpm). Then, the mixing material is refilled and once again stirred briefly. A processing time of approx. 60 minutes is then available.
2. Applying an adhesive layer is not necessary if properly primed with quartz-sand scattering.
3. The mixture substances are distributed coarsely with a trowel in the desired layer thickness and then compressed and evened with a smoothing trowel. When using **HADALAN® MST 89M** (2-4 mm) the average middle layer thickness amounts to approx. 8 mm. In the case of **HADALAN® MST 89M** (4-8 mm) the average layer thickness is approx. 15 mm.
4. When using fine decoration quartz grain sizes, the smoothing work can be significantly improved by cleaning the tools with **HADALAN® EPV 38L** at intervals in between.
5. The surfaces can be walked on carefully after approx. 8 hours. They are capable of taking the full load after approx. 2 days.
6. The work tools can be cleaned in the fresh state with **HADALAN® EPV 38L**. After the hardening is complete, cleaning is only possible mechanically.
7. For cleaning and care, see the care instructions for **HADALAN®** natural stone linings.
8. When using in the **HADALAN®** balcony system, comply with the "Renovating, coating and decorative design with **HADALAN®** PUR liquid plastics" processing instructions.

hahne system products

HADALAN® EPUni 12E
HADALAN® EG145 13E
HADALAN® MST 89M
HADALAN® Decorquartz 89M
HADALAN® EPV 38L
VESTEROL® Kontakt 10D

Important notes

- Maintain the processing temperature of +8 °C to +30 °C. When processing above +30 °C, there is a danger that the bonding agent will run off the stone surface. That reduces the durability of the lining system.
- **HADALAN®** PUR reaction resins are reactive to humidity. For that reason, these materials must be protected from humidity till 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.
- Comply with the usage specifications. Deviations can result in shading in the surface.
- Excessive dosing of the bonding agent can lead to the formation of bubbles and cavities.
- The stated additive volumes apply to **HADALAN® MST 89M** and **-Decorquartz 89M**. Perform preliminary tests if other grain sizes are used.
- Compress **HADALAN® MST 89M** well to achieve a homogeneous and stable surface covering.

Ingredients

Polyurethane resin, auxiliary materials

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

Heinrich Hahne GmbH & Co KG
Heinrich-Hahne-Weg 11
D-45711 Datteln

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