

## Polyurethane binder for natural stone and decorative quartz linings

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 file 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® DQ0712 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 <sup>1)</sup>	Approx. 60 minutes
Density <sup>1)</sup>	1.15 kg/l
Viscosity <sup>1)</sup>	Approx. 6.0 dPa s
Colour shade	Transparent
Proportion of solids	Approx. 100 %
Can be walked on carefully <sup>1)</sup>	After approx. 8 hours
Fully hardened and accessible <sup>1)</sup>	After approx. 2 days
Compressive strength	
5% <b>-LF68 12P</b> on <b>-MST 89M</b>	17 - 20 N/mm <sup>2</sup> after 7d
Bending tensile strength	4.5 - 6.0 N/mm <sup>2</sup>
Storage	Cool, 6 months

### Quantity required

As binder	
for <b>-MST 89M</b> (2-4 mm)	approx. 5% by weight
for <b>-DQ0712 89M</b>	approx. 6% by weight

<sup>1)</sup> 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

- HADALAN® MST 89M** (2-4 mm) is mixed with 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.
- Applying an adhesive layer is not necessary if properly primed with quartz-sand scattering.
- 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.
- 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.
- The surfaces can be walked on carefully after approx. 8 hours. They are capable of taking the full load after approx. 2 days.
- The work tools can be cleaned in the fresh state with **HADALAN® EPV 38L**. After the hardening is complete, cleaning is only possible mechanically.
- For cleaning and care, see the care instructions for **HADALAN®** natural stone linings.
- 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® DQ0712 89M  
HADALAN® EPV 38L  
HADALAN® EBK 13E

## 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.
- Strong sunlight has to be avoided. If required, shading must be provided.
- HADALAN® LF68 12P** reacts to moisture. For that reason, the material must be protected from humidity until it is completely hardened. The surface of the substrate to be coated must be dry.
- 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 **-DQ0712 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

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