

## CEM LAVA

### DESCRIPTION:

**Quartzline Cem Lava** is a durable floor finish with a robust and contemporary look. The material consists of fine mineral grains combined with a two-component epoxy resin binder, resulting in an exceptionally strong and highly scratch-resistant floor.

Thanks to its excellent adhesion, it can be applied to almost any substrate, such as concrete, sand-cement, anhydrite, or tiles. Subtle colour variations give the floor an extra stylish appearance. From homes to cafés, and from offices to bathrooms: **Cem Lava** is suitable for virtually any space. Available in 25 attractive standard colours, with additional colours available upon request along with matching samples.

### CONSUMPTION:

The consumption of **Cem Lava Base** is between 0.8 and 1.2 kg/m<sup>2</sup>.

The consumption of **Cem Lava Top** is between 0.6 and 0.8 kg/m<sup>2</sup>.

### APPLICATION CONDITIONS:

Substrate temperature: Minimum 15°C, maximum 25°C

Ambient temperature: Minimum 15°C, maximum 25°C

Relative humidity: Maximum 75% R.H.

Dew point: Be cautious of condensation!

**Both the material and the substrate must always be at least 3°C above the dew point.**

### SUBSTRATE PREPARATION:

The substrate must be sound and sufficiently pressure-resistant (at least 25 N/mm<sup>2</sup>), with a minimum bond strength of 1.5 N/mm<sup>2</sup>. Remove weak concrete and loose cementitious levelling compounds. Fill surface damages, such as holes and voids, with **Quartzline Epoxygel** or **Quartzline MRP**.

The substrate must be level and even, as well as clean and dry, free of dirt, oil, grease, and other contaminants. Level uneven substrates using **Quartzline Cementitious SL Underlayment 2-20 NF**, **Alpha SL Underlayment 2-20**, or **Cementitious SL Constructive**. (See respective TDS for more information.)

For consecutive flooring system installations, the residual moisture content must not exceed < 4.0 CM-%, and for anhydrite substrates, a maximum of < 0.5 CM-% applies.

Existing expansion joints must be respected. If applicable, follow the start-up protocol for underfloor heating.

### PRIMING:

Remove any irregularities from the concrete or leveled subfloor, for example by sanding, and then apply **Quartzline Primer CL**. This primer dries quickly and contains a fine grain, making the application of the **Cem Lava Base** easier and preventing the so-called "rolling" effect. If needed, accelerate the drying process using a fan, under good conditions, the **Cem Lava Base** can be applied after approximately one hour.

### PROPERTIES:

Mineral appearance
Highly wear- and scratch-resistant
Good UV resistance
Easy to apply
Seamless finish
Easy to clean
Suitable for wet areas
Excellent chemical and mechanical resistance
Suitable for use with underfloor heating

### TECHNICAL PROPERTIES:

Density <sup>1</sup> Base (g/cm <sup>3</sup> )	Ca 1,95
Density <sup>1</sup> Top (g/cm <sup>3</sup> )	Ca 1,75
Viscosity <sup>2</sup> Base (mPa.s)	Ca. 5000
Viscosity <sup>2</sup> Top (mPa.s)	Ca. 5000
Shore Hardness <sup>2</sup>	> D80
Working time (min.)	30

<sup>1</sup> = ISO 2811-1, + 23°C/50% R.H

<sup>2</sup> = Brookfield, LV4, 30 RPM, @ 23°C

### PACKAGING:

**Cem Lava Top:** 10 kg set  
**Cem Lava Base:** 20 kg set

### FORM:

**Component A:** coloured, liquid  
**Component B:** liquid, clear transparent

Promotional color chart available;  
project-specific colors on request.

Application in phases and the use of different batch numbers within a single project may lead to slight color variations.

Always order all required material for one project in a single purchase.

### SHELF LIFE:

Up to 6 months from production date in original, sealed, unopened, and undamaged packaging, stored dry between +5°C and +30°C.

## MIXING:

**Mixing ratio:** Component A : Component B = 83.6 : 16.4 (by weight)

Add Component A to Component B and mix for 2 minutes using a high-speed mixer with a Collomix DLX 120 mixing paddle until a homogeneous mixture is achieved. Then pour the mixture into a clean bucket and mix again for at least 1 more minute thoroughly. This prevents any unmixed residue along the edges or bottom of the bucket.

## APPLICATION:

Before starting the application, check the relative humidity (R.H.) and dew point. Keep windows and doors closed during application to prevent drafts and remove any interior doors.

Apply **Cem Lava Base** as evenly and smoothly as possible using a French trowel. The next day, sand the floor with a Woodboy sanding machine equipped with a grit 40 sanding pad.

If needed, use a fan to speed up the drying process of the **Cem Lava Base**. Once the layer feels dry to the touch, it can be carefully walked on. Keep in mind that the **Base** is not yet fully cured at this stage, which may make sanding more difficult.

Next, apply **Cem Lava Top**. The structure and pattern of the product are largely determined by the applicator. Factors such as application method, trowelling, sanding, and layer thickness all play a crucial role.

The next day, sand the **Cem Lava Top** with a grit 80 sanding pad. Finish the floor with approximately 125–150 g/m<sup>2</sup> of **Quartzline Coating PU MG Matt**.

## OPMERKINGEN:

- Applying in phases and using different batch numbers within one project may lead to colour variations. Always order the full required quantity in one go for the entire project.
- Protect freshly applied **Cem Lava** from moisture, condensation, and water exposure for at least 24 hours.
- Do not load the floor within 24 hours and do not exceed the recommended layer thickness.
- Do not expose the material to wind or direct sunlight during application. Temperature and humidity have a major impact on processing and drying time.
- Ensure adequate ventilation after application. A dry substrate and proper air circulation in the space are essential. This can be achieved by tilting windows or using a suitable ventilation or drying system. It is crucial that moisture can effectively evaporate from the floor.
- **Note:** The colours on our colour samples, brochures, and website are indicative. The final colour may vary slightly due to ambient temperature and humidity.

## LEGAL NOTICE:

This information, and in particular the recommendations related to the application and end use of Quartzline products, is provided in good faith based on our current knowledge and experience of the products. It is valid for products that are correctly stored, treated and applied under normal conditions in accordance with Quartzline's recommendations.

In practice, variations in materials, substrates and actual on-site conditions are such that no warranty in respect of merchantability or of suitability for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the products must test the product's suitability for the intended application and purpose. Eurostep reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the technical data sheet for the product concerned, copies of which will be supplied on request.

# Quartzline

## TOOLS:

Metal and/or plastic trowel • French trowel 25/35 cm • Bucket • Mixer • Sanding tools • Gloves

Clean tools immediately after use with water. Once hardened, the material can only be removed mechanically.

## WORKING TIME:

Working time - 20 °C	Ca. 30 min.
Recoatable at- 20 °C	Ca. 6 hr.
Fully cured- 20 °C	Ca. 24 hr.

## HEALTH AND SAFETY:

For information and advice on the safe handling, storage, and disposal of chemical products, the user must consult the most recent version of the product safety data sheet, which contains physical, ecological, toxicological, and other safety-related information.

## REFERENCE VALUES:

All technical data in this product information sheet are based on laboratory testing. Actual values may vary depending on the conditions.

**For more information about Quartzline products or for technical support, please contact:**

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