

PRODUCT DATA SHEET

Reference: TDS02CLCS022

Cementitious LCS

Cementitious LCS is a liquid, cement-based screed mortar to produce screeds. Complies with NEN-EN 13813 and strength class CT-C16-F3. Suitable for layer thicknesses from 30 mm.

Cementitious LCS has good workability and excellent flow, which means that levelling is required only to a minimal extent.



APPLICATION CONDITIONS:

| | |
|-----------------------|---------------------------|
| Substrate temperature | Minimum 5°C, maximum 30°C |
| Ambient temperature | Minimum 5°C, maximum 30°C |
| Relative humidity | < 75% R.H. |
| Dew point | Beware of condensation |

SUBSTRATE PREPARATION:

The area must be wind and watertight, and all holes and cracks must be sealed to prevent leakage. The substrate must be dry, stable and load-bearing, and free from dust, dirt, grease and loose particles.

Prime the substrate with Primer Universal (see TDS). Inadequate priming leads to water extraction, resulting in a weak, poorly reacting mortar, an increased risk of air bubbles and crack formation.

Alternatively, the substrate can be moistened or slurred with a cement/water mixture (1:5), which extends the drying time.

For floating applications, apply 8–10 mm edge strips along all vertical surfaces. Lay a waterproof PE membrane (\pm 0.2 mm) flat and wrinkle-free, with an overlap of ca. 10 cm and waterproof-sealed joints. Pull the membrane up along the edges to above floor level. Then apply edge strips again and place a steel reinforcement mesh \varnothing 6 mm, mesh size 150×150 mm, on spacers, positioned at ca. 1/3 of the floor thickness.

APPLICATION:

Ca. 3.5 litres of water per 25-kilogram bag of powder.

Add ca. 3.5 litres of water to 25 kg of Quartzline Cementitious LCS. First pour the entire quantity of water into a tall mixing tub or mortar tub, then add the dry mortar. Mix for at least 2 minutes to a lump-free, homogeneous mass using an electric mixer at ca. 600 RPM.

Use of a Quartzline mixing trolley or Collomix mixer is recommended. After a short rest period, mix briefly once more and apply immediately. Only use quantities that can be applied within 45–60 minutes.

Mixing is also possible using a concrete mixer with open blades. First add water, then the mortar, and mix for 3–4 minutes until a homogeneous, lump-free mixture is achieved. Transport to the floor can be carried out using a wheelbarrow.

Apply the floor in a single operation. For underfloor heating, ensure a minimum cover of 25 mm above the pipes. Pour to the desired layer thickness and finish with a trowel. Float the floor in a criss-cross pattern for a level finish. Minimum layer thickness: 30 mm.

CHARACTERISTICS:

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|----------------------------|
| Mineral-bound |
| Good mechanical properties |
| Colourfast |
| Solvent-free |
| Polymer modified |
| Pumpable |
| Suitable for many purposes |
| Fast curing and drying |
| Self-levelling |

TECHNICAL PROPERTIES:

| | |
|--|------|
| Maximum grain size (mm) | 4 |
| Density ¹ (g/cm ³) | 2 |
| Compressive strength ² (N/mm ²) | > 16 |
| Flexural strength ² (N/mm ²) | > 3 |

1 = ISO 2811-1/+ 23°C/50% R.H.

2 = ISO 196-1/@ 28 days/+ 23°C/50% R.H.

INFORMATION:

Form: 25 kg bag, sand-cement

Shelf life: Up to 12 months after the production date in the original, sealed, unopened and undamaged packaging, stored dry between 5°C and 30°C.

Pot life:

| Phase | Time (at 20°C) |
|----------|----------------|
| Pot life | Ca. 1.5 hours |
| Walkable | Ca. 24 hours |

*The curing time strongly depends on the applied layer thickness and conditions.



Cementitious LCS

CONSUMPTION:

Ca. 2.0 kg powder per m² per mm of layer thickness.
25 kg of Quartzline Cementitious LCS yields ca. 12.5 litres of mortar.

| Layer thickness | Consumption (ready-mixed mortar) |
|-----------------|----------------------------------|
| 30 mm | ca. 60 kg/m ² |
| 50 mm | ca. 100 kg/m ² |
| 100 mm | ca. 200 kg/m ² |

IMPORTANT NOTES:

- Do not mix with other flooring products.
- Do not add more water than the specified amount
- Protect freshly applied Cementitious LCS from moisture, sunlight and draughts for at least 24 hours.
- Do not add any more water once the product begins to react.
- For subsequent installations, additional mechanical pre-treatment may be required to remove any laitance.

LEGAL NOTICE:

The information and recommendations provided are based on Quartzline's current knowledge and experience when used correctly under normal conditions. Due to variations in materials, substrates and conditions, no guarantee or liability can be accepted for suitability or application. Quartzline reserves the right to change product properties. Third-party property rights must be respected. All deliveries are subject to the applicable terms and conditions of sale and delivery.

VALUE BASE:

All technical data in this product data sheet are based on laboratory tests. Data may vary depending on conditions.

HEALTH AND SAFETY:

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