# ResinTech SLT — Self-Levelling Topping

Product code SLT · TDS-SLT-2.2 · Version 2.2 · Issued 10 October 2026

CEMENTITIOUS FLOOR TOPPING | INTERIOR & EXTERIOR | POLISHABLE | 5–40 mm | 22.7 kg (50 lb) BAG

## Product Description

ResinTech SLT is a cement-based, self-levelling **finished floor topping**. It is poured in place at 5–40 mm, levels under its own flow and cures to a smooth, flat, hard, seamless surface intended to remain as the exposed wear surface of the floor. The cured topping may be sealed with a compatible sealer or clear topcoat, or mechanically ground and polished to the specified gloss. As a secondary use, SLT can also serve as a levelling underlayment beneath epoxy, polyaspartic, resin, tile and vinyl flooring systems. For use by trained flooring contractors and applicators.

Confirm application sequence, priming, finishing method, sealing or overcoat windows and system compatibility against this data sheet and the project specification before use.

## Product Identification

| | |
|---|---|
| **Product name** | ResinTech SLT — Self-Levelling Topping |
| **Product code** | SLT |
| **Product type** | Cementitious self-levelling finished floor topping, polishable; secondary use as an underlayment |
| **Declared classification** | JC/T 985-2017 — cementitious self-levelling floor mortar (see Performance Data) |
| **Packaging** | 22.7 kg (50 lb) bag |
| **Colour / form** | Grey free-flowing powder |
| **Origin** | Manufactured for ResinTech |

## Uses

| Use | Role | Finish requirement |
|---|---|---|
| **Finished floor topping** (primary use) | Remains as the exposed cementitious wear surface of the floor, interior or exterior. | Seal with a compatible sealer or clear topcoat once the topping has reached an acceptable moisture content, or grind and polish — see Finishing. Sealing controls dusting and staining and improves wear and chemical resistance. |
| **Underlayment** (secondary use) | Levels and smooths a prepared substrate beneath a flooring or coating system. | Overcoat with the specified system only after SLT has reached the required strength and an acceptable moisture content; confirm the finish system's minimum overcoat time. |

## Key Features

- **Finished wear surface** — declared abrasion resistance of 619 mm³ against the declared ≤ 800 mm³ limit (JC/T 985-2017).
- **Early strength** — declared compressive strength ≥ 8.0 MPa at 24 h; light foot traffic after approx. 2 h at 20 °C.
- **Low shrinkage** — declared drying shrinkage ≤ 0.05 %, reducing cracking and delamination risk.
- **Self-smoothing flow** — declared flow ≥ 130 mm initially and after 20 minutes.
- **Substrate adhesion** — declared bond strength ≥ 2.0 MPa.
- **Low odour** during installation.

**How to read this data sheet.** Two kinds of information appear here.

**1. Product specifications** — packaging, mixing water, application thickness, yield / coverage, shelf life, use environment and finishing options — are taken from the current ResinTech SLT product label and ResinTech's product specification. They are specifications and product-use statements, not test results.

**2. Performance values** are the manufacturer's declared values to JC/T 985-2017. All values are typical or declared values, not guarantees.

## Performance Data

Manufacturer's declared values, JC/T 985-2017. Typical values; confirm current batch data before specifying.

| Property | Unit | Declared value | Method (ASTM equivalent for comparison only) |
|---|---|---|---|
| Initial flow | mm | ≥ 130 | JC/T 985-2017 — equiv. ASTM C1708 |
| Flow after 20 minutes | mm | ≥ 130 | JC/T 985-2017 — equiv. ASTM C1708 |
| Drying shrinkage | % | ≤ 0.05 | JC/T 985-2017 — equiv. ASTM C157 |
| Bond strength (tensile adhesion) | MPa | ≥ 2.0 | JC/T 985-2017 — equiv. ASTM C1583 |
| Compressive strength, 24 h | MPa | ≥ 8.0 | JC/T 985-2017 — equiv. ASTM C109 |
| Flexural strength, 24 h | MPa | ≥ 4.0 | JC/T 985-2017 — equiv. ASTM C348 |
| Compressive strength, 28 d | MPa | ≥ 35.0 | JC/T 985-2017 — equiv. ASTM C109 |
| Flexural strength, 28 d | MPa | ≥ 8.0 | JC/T 985-2017 — equiv. ASTM C348 |
| Abrasion resistance | $mm^3$ | 619 (declared limit ≤ 800) | JC/T 985-2017 — equiv. ASTM C779 |

Values were declared to JC/T 985-2017, a standard scoped to interior floors. The ASTM methods are recognised North American equivalents shown for comparison only. Where a project specification requires ASTM-tested results, request ASTM testing from ResinTech.

## Application Data

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|---|---|
| **Use environment** | Interior and exterior floors (ResinTech product-use statement; see Exterior use below) |
| **Application thickness** | 5–40 mm |
| **Yield** | Approx. 15 kg/m² at 10 mm thickness (approx. 1.5 kg/m² per 1 mm of thickness) |
| **Coverage** | Approx. 1.5 m² (≈ 16.3 ft²) per 22.7 kg bag at 10 mm — see Coverage Guide |
| **Mixing water** | 4.5–5.0 L of clean water per 22.7 kg (50 lb) bag (approx. 20–22 % by weight) |
| **Application temperature** | 5 °C to 35 °C; substrate moisture content < 4 % |
| **Time to light foot traffic** | Approx. 2 hours at 20 °C |
| **Ready for floor coverings / tiling** | Approx. 24 hours |
| **Final strength (full cure)** | Approx. 7 days |
| **Net weight** | 22.7 kg (50 lb) per bag |
| **Shelf life** | 6 months from date of production, in original unopened packaging |
| **Storage** | Store indoors in a cool, dry place; keep sealed and protect from moisture |

Working time, set time and strength development vary with temperature, humidity, substrate condition and applied thickness. Lower temperatures slow set and strength gain; higher temperatures accelerate them.

## Coverage Guide

Based on the product-label yield of approx. 15 kg/m² at 10 mm (1.5 kg/m² per 1 mm). Coverage per bag = 22.7 kg ÷ (1.5 kg/m² per mm × thickness in mm); 1 m² = 10.764 ft². Theoretical figures for a smooth, level substrate — they exclude waste, substrate profile and porosity, priming and over-pour. Verify actual yield by site mock-up before ordering.

| Thickness | Consumption | Coverage per bag (m²) | Coverage per bag (ft²) | Bags per 10 m² | Bags per 100 ft² |
|---|---|---|---|---|---|
| 5 mm (minimum) | 7.5 kg/m² | ≈ 3.0 m² | ≈ 32.6 ft² | ≈ 3.3 | ≈ 3.1 |
| 10 mm | 15.0 kg/m² | ≈ 1.5 m² | ≈ 16.3 ft² | ≈ 6.6 | ≈ 6.1 |
| 15 mm | 22.5 kg/m² | ≈ 1.0 m² | ≈ 10.9 ft² | ≈ 9.9 | ≈ 9.2 |
| 20 mm | 30.0 kg/m² | ≈ 0.76 m² | ≈ 8.1 ft² | ≈ 13.2 | ≈ 12.3 |
| 25 mm | 37.5 kg/m² | ≈ 0.61 m² | ≈ 6.5 ft² | ≈ 16.5 | ≈ 15.3 |
| 30 mm | 45.0 kg/m² | ≈ 0.50 m² | ≈ 5.4 ft² | ≈ 19.8 | ≈ 18.4 |
| 40 mm (maximum) | 60.0 kg/m² | ≈ 0.38 m² | ≈ 4.1 ft² | ≈ 26.4 | ≈ 24.6 |

Bag counts are before any waste allowance. Thicknesses below 5 mm or above 40 mm are outside the scope of this data sheet.

## Best-Use Applications

- Finished floor topping — seamless cementitious wear surface, sealed or polished
- Smooth, walk-on floors for commercial, retail and residential interiors
- Exterior slabs, patios and walkways where the topping is protected from de-icing salts and standing water (see Exterior use)
- Renovation and resurfacing over sound existing concrete
- Industrial and warehouse floor toppings — seal or topcoat to suit the traffic
- Secondary use: levelling underlayment beneath epoxy, polyaspartic, resin, tile and vinyl systems

**Exterior use.** ResinTech states SLT is suitable for interior and exterior floors. The declared performance values were determined to JC/T 985-2017, an interior standard, and no freeze–thaw or de-icing-salt test data has been published for SLT. For exterior floors exposed to repeated freezing while saturated, or to de-icing salts, confirm suitability with ResinTech for the specific project and protect the finished surface with a suitable sealer.

**Polished finish.** ResinTech states the cured topping can be mechanically ground and polished. No polishing procedure, timing or gloss data has been published; establish the grinding sequence, start time and expected appearance by site mock-up before committing a project.

## Application Instructions

### Surface Preparation

The substrate must be clean, structurally sound, and free of oil, grease, dust, laitance, curing compounds and loose material. Mechanically prepare the surface (grinding or shot-blasting) as required to achieve a sound, open profile. Check substrate moisture (< 4 %) and confirm an acceptable moisture vapour emission rate before application. Do not apply over active water ingress or rising damp. Install perimeter edge strips or forms to contain the pour.

### Priming

A primer coat may be required depending on substrate porosity and condition. Highly porous or absorbent substrates should be primed to prevent rapid water loss, pinholing and reduced adhesion. Allow the primer to cure as directed before applying ResinTech SLT.

### Mixing

Add one full 22.7 kg (50 lb) bag of SLT to **4.5–5.0 L of clean water** (approx. 20–22 % by weight) in a clean mixing vessel. Mix with a low-speed drill and paddle for 2–3 minutes to a smooth, lump-free, pourable consistency. Do not exceed 5.0 L of water per bag: excess water reduces compressive strength and increases shrinkage and the risk of segregation and surface dusting. If a part bag is mixed, keep the same water-to-powder ratio.

### Placing

Pour the mixed material onto the prepared substrate and spread it to the required thickness, within **5–40 mm**, with a gauge rake or pin screed. The material self-levels under its own flow. Use a spiked roller to release entrapped air and assist levelling. Work continuously within the working time and avoid cold joints. Thicknesses outside 5–40 mm and multi-layer builds are outside the scope of this data sheet — contact ResinTech before specifying them.

### Curing & Finishing

Protect the freshly placed surface from drafts, direct sunlight, rain and rapid drying during the initial cure. **Sealed finish:** seal the cured surface with a compatible sealer or clear topcoat once it has reached an acceptable moisture content. **Polished finish:** grind and polish only after the topping has gained sufficient strength (not before 24 hours; confirm by mock-up), then apply a densifier/sealer as specified. **Underlayment:** do not apply the flooring system until SLT has reached the required strength and an acceptable moisture content, and confirm the minimum overcoating time for the specific finish system. Sealing or overcoating too early may compromise adhesion and performance.

## Limitations

- Apply within 5–40 mm only.
- Exterior use: no freeze–thaw or de-icing-salt data has been published; confirm with ResinTech for exposed, saturated-freezing or salted locations.
- For exposed topping use, seal or polish-and-densify the surface; for heavy industrial or vehicular traffic, use a flooring / topcoat system rather than leaving SLT bare.
- Do not apply over substrates with active water ingress or rising damp.
- Do not apply outside the 5–35 °C ambient / substrate temperature range.
- Do not over-water — maximum 5.0 L of water per 22.7 kg bag.
- SLT is a cementitious topping, not a waterproofing membrane.
- Use within the shelf life: 6 months from date of production, in original unopened packaging.

## Health, Safety & Handling

ResinTech SLT contains Portland cement and crystalline silica. Wet mortar is alkaline and can cause serious skin and eye burns; dust — including grinding and polishing dust — can cause respiratory and eye irritation, and repeated inhalation of respirable crystalline silica may cause lung disease. Wear waterproof gloves, eye protection and an appropriate respirator; use wet methods or HEPA dust extraction when grinding. Refer to the ResinTech SLT Safety Data Sheet (SDS-SLT-2.1) before use.

## Disclaimer

The information in this Technical Data Sheet is provided in good faith for professional reference and is based on the manufacturer's declared data and the current product label. Because site conditions, substrates and application methods are beyond the supplier's control, no warranty, express or implied, is given as to results obtained. The purchaser and applicator are responsible for confirming product suitability for the intended use and for testing under actual site conditions. ResinTech offers no product warranty and accepts no liability arising from use. Always confirm against the current TDS, SDS and project specification before specifying or ordering.