

TECHNICAL DATA SHEET

ResinTech SLC — Professional Self-Levelling Cement

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SELF-LEVELLING

INTERIOR WEAR SURFACE

 $\geq 35 \text{ MPa (28 d)}$

LOW SHRINKAGE

Product Description

ResinTech SLC is a finished interior self-levelling floor topping — a smooth, flat, dense and abrasion-resistant wear surface poured in place. Formulated for rapid early-strength development and low shrinkage, it is applied at 3–60 mm per pass and cures to a hard, seamless walk-on floor. Once cured it is sealed with a compatible sealer or clear topcoat to finish the surface and maximise wear and chemical resistance. The same product can also be used as a thick-layer underlayment beneath epoxy, polyaspartic, resin, tile and vinyl systems. For interior use by trained flooring contractors and applicators.

Seal the cured topping once it has reached an acceptable moisture content; sealing controls dusting and staining and improves wear and chemical resistance. When the product is instead used as an underlayment, overcoat with the specified flooring system. Confirm application sequence, priming, sealing/overcoat windows and system compatibility against this data sheet and the project specification before use.

Product Identification

Product name	ResinTech SLC — Professional Self-Levelling Cement
Product code	SLC
Product type	Finished interior self-levelling floor topping / wear surface (also usable as underlayment)
Classification	JC/T 985-2017 (cementitious self-levelling floor mortar)
Packaging	25 kg (55 lb) multi-wall paper bag
System role	Finished interior self-levelling topping (sealed); also suitable as a substrate underlayment
Colour / form	Grey free-flowing powder

Key Features

- **Abrasion-resistant wear surface** — tested at 619 mm^3 against a $\leq 800 \text{ mm}^3$ limit, suitable for use as a finished interior topping, not only as an underlayment
- **Rapid early-strength gain** — faster return to service and reduced project downtime
- **Low shrinkage** — low dry shrinkage of $\leq 0.05\%$, reducing cracking and delamination risk
- **High flow / self-smoothing** — levels under its own weight to a flat, uniform surface
- **Strong substrate adhesion** — bonding strength of $\geq 2.0 \text{ MPa}$ provides a sound base for finish systems
- **Low odour** — suitable for occupied or semi-occupied commercial interiors

Technical Performance Data

The following are the manufacturer's declared technical specifications, determined in accordance with JC/T 985-2017. Abrasion resistance was additionally verified by an independent ISO/IEC 17025-accredited laboratory. Values are typical/declared specifications; confirm current batch

data before specifying.

Property	Unit	Specification	Test method (equivalent ASTM)
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 (independent lab)	mm ³	619 (≤ 800)	JC/T 985-2017 — equiv. ASTM C779

Values were determined to JC/T 985-2017. The ASTM methods shown are recognised North American equivalents, provided for comparison only — not the method by which these values were obtained. Where a project specification requires ASTM-tested results, request ASTM testing from the manufacturer. Abrasion resistance independently verified against the JC/T 985-2017 wear-surface limit (≤ 800 mm³; result 619 mm³) — supporting use as a finished interior wear surface.

Physical Properties & Application Data

Compressive strength (28 d)	≥ 35.0 MPa (JC/T 985-2017)
Flexural strength (28 d)	≥ 8.0 MPa
Bond strength (tensile adhesion)	≥ 2.0 MPa
Application thickness	3–60 mm per pass
Coverage / yield	Approx. 1.7 kg/m ² per 1 mm of thickness
Mixing water	5.0–5.5 L clean potable water per 25 kg bag (approx. 20–22%)
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	25 kg (55 lb) per bag
Shelf life	12 months from date of production, in original unopened packaging
Storage	Store indoors in a cool, dry place; keep sealed and protect from moisture
Origin	Manufactured for ResinTech

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 approx. 1.7 kg/m² per 1 mm of thickness. Actual coverage varies with substrate profile, condition and application method.

Application thickness	Approx. coverage per 25 kg bag
3 mm	Approx. 4.9 m ²
5 mm	Approx. 2.9 m ²
10 mm	Approx. 1.5 m ²
30 mm	Approx. 0.49 m ²
60 mm (max per pass)	Approx. 0.25 m ²

Best-Use Applications

- Finished interior self-levelling floor topping / seamless wear surface (sealed)
- Smooth, walk-on floors for commercial, retail and residential interiors
- Renovation and resurfacing over sound existing interior floors
- Industrial and warehouse floor toppings (seal or topcoat to suit the traffic)
- Also: thick-layer underlayment beneath epoxy, polyaspartic, resin, tile and vinyl systems

Exterior / freeze-thaw use: ResinTech SLC is tested to JC/T 985-2017, an interior cementitious self-levelling standard. Exterior and freeze-thaw suitability are not covered by the current test data — confirm with the manufacturer before any exterior application.

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 and confirm an acceptable moisture vapour emission rate before application. 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 SLC.

Mixing

Add one full 25 kg bag to approximately 5.0–5.5 L of clean potable water (about 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 over-water: excess water reduces compressive strength and increases shrinkage and the risk of segregation and surface dusting.

Placing & Finishing

Pour the mixed material onto the prepared substrate and spread to the required thickness (3–60 mm per pass) 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. For depths greater than 60 mm, apply in multiple passes and confirm minimum re-coat times between layers.

Curing, Sealing & Overcoating

Protect the freshly placed surface from drafts, direct sunlight and rapid drying during the initial cure. As a finished topping, seal the cured surface with a compatible sealer or clear topcoat once it has reached an acceptable moisture content; sealing controls dusting and staining and improves wear and chemical resistance. Where the product is used as an underlayment instead, do not apply the flooring system until the SLC 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

- For exposed topping use, seal with a compatible sealer/topcoat; for heavy industrial or vehicular traffic, use a flooring/topcoat system rather than leaving the SLC bare
- Do not apply over substrates with active water ingress or rising damp
- Do not apply outside the recommended ambient/substrate temperature range
- Do not over-water the mix — strength loss and increased shrinkage will result
- Interior use as tested; confirm exterior / freeze-thaw suitability with the manufacturer

Health, Safety & Handling

ResinTech SLC contains Portland cement and crystalline silica. Wet mortar is alkaline and can cause serious skin and eye burns; 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 when handling dust. Refer to the ResinTech SLC Safety Data Sheet (SDS) 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 data and independent test results for the batch indicated. 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.