

1. PRODUCT IDENTIFICATION

Product Name	TruLevel™
Product Category	Self-Levelling Screed — Cementitious Underlayment
Product Code	LCORE-TL-001
Manufacturer	Levelcore Industries
Address	46 Buckingham Dr, Wangara WA 6065, Australia
Toll Free	1800 717 398
WA Distributor	(08) 6372 1291
Website / Email	levelcore.com.au info@levelcore.com.au
Intended Use	High-flow, polymer-modified self-levelling cementitious screed. Used as an underlayment to create a flat, smooth, high-strength sub-floor surface for resilient flooring, LVT, vinyl, timber, tile, and carpet systems. Suitable for interior commercial and residential applications including remedial flatness correction and new construction.
Pack Size	20 kg bag

2. PHYSICAL & CHEMICAL PROPERTIES

Physical State	Powder (cementitious)	Colour (mixed/cured)	Grey
Base Chemistry	Polymer-modified cementitious binder	pH (mixed, wet)	Alkaline (cement-based)
Bulk Density (set)	2,050 – 2,080 kg/m ³	Odour	Faint cement; odourless when cured
Flash Point	Not applicable (powder)	VOC	Low-VOC; refer to VOC test report
Silica Content	Yes — crystalline silica present (see Section 5)	Pumpable	Yes — optimised for batch mixing or continuous pump

3. COMPOSITION / KEY INGREDIENTS

Specific ingredient percentages are detailed in the TruLevel Safety Data Sheet (SDS). Key components include:

CAS No.	Chemical Name	Proportion
65997-15-1	Portland Cement	Major binder component
14808-60-7	Crystalline Silica (Quartz Sand)	Aggregate — see silica warning in Section 5
Various	Calcium Sulfoaluminate / Gypsum components	Rapid strength development
Various	Polymer modifier (VA/E or similar copolymer)	Improved adhesion and flexibility

Various	Superplasticiser	Self-levelling flow properties
Various	Cellulose ether / rheology modifiers	Workability and water retention

For full CAS numbers and exact proportions, refer to the TruLevel SDS available at levelcore.com.au

4. TECHNICAL PERFORMANCE DATA

Tested performance values (refer to TDS for full test methodology):

Property	Value / Range
Compressive Strength (28 days)	41.9 MPa
Flexural Strength (28 days)	10.5 MPa
Working Time (approx. 20°C)	20 – 40 minutes
Walk-on Time	4 – 6 hours (conditions dependent)
Floor Covering Install Time	Approx. 24 hours at <10 mm thickness
Application Thickness Range	1 – 30 mm (single lift)
Water Addition (20 kg bag)	4.8 – 4.9 litres of clean water
Mixing Time	2 – 3 minutes to lump-free, pourable consistency
Set Density	2,050 – 2,080 kg/m ³

5. COVERAGE RATES (per 20 kg bag)

Application Thickness	Coverage (20 kg bag)	Approx. kg/m ²
3 mm	2.60 m ²	~7.7 kg/m ²
6 mm	1.73 m ²	~11.6 kg/m ²
8 mm	1.30 m ²	~15.4 kg/m ²
10 mm	1.04 m ²	~19.2 kg/m ²
12 mm	0.86 m ²	~23.3 kg/m ²
15 mm	0.70 m ²	~28.6 kg/m ²
20 mm	0.52 m ²	~38.5 kg/m ²

Coverage is a guide based on level substrates. Uneven or porous surfaces will consume additional material. A site survey and trial pour are recommended for accurate project estimation.

6. APPLICATION SUMMARY

Placement Method	Pour or pump; spread with gauge rake; de-air with spike roller immediately	Primer Requirement	Mandatory — use approved Levelcore primer (PrimeShield) on all substrates
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Substrate Condition	Mechanically clean, sound, dry; free from dust, oil, laitance, and curing compounds	Concrete / Cementitious	Mechanically clean and sound; prime to consolidate surface and reduce pinholes
Timber / Board / Gypsum	Structurally adequate and per local code; prime/seal appropriately	UFH — Switch Off	24 hours before application; restart per commissioning schedule after cure
Moisture Testing	Test per local standards; install moisture mitigation system if above limits	Early Cure Protection	Protect from drafts, direct sun, and rapid moisture loss during early cure
Min. Application Temp.	Refer to TDS — typically $\geq 10^{\circ}\text{C}$ ambient and substrate	Compatible Finishes	Resilient flooring, LVT, vinyl, timber, tile, carpet

7. HEALTH, SAFETY & REGULATORY SUMMARY

⚠️ **CRYSTALLINE SILICA:** This product contains crystalline silica. Inhalation of respirable silica dust during mixing is classified as a respiratory carcinogen (IARC Group 1). Always use a P2 dust mask or respirator during mixing. A Silica Risk Management Plan is required under Australian WHS Regulations for workers regularly mixing this product.

⚠️ **WET CEMENT:** TruLevel is alkaline when wet. Prolonged skin contact with wet mixed product can cause serious chemical burns. Wear chemical-resistant gloves and change immediately if clothing becomes saturated with wet mortar.

GHS Classification	Not classified as dangerous goods; crystalline silica present — respiratory hazard
Key Hazards	1. Crystalline silica inhalation (dry powder / mixing) 2. Alkaline chemical burns (wet material, prolonged skin contact)
Dangerous Goods (ADG)	Not regulated
PPE — Respiratory	P2 dust mask minimum during mixing; half-face respirator recommended for repetitive/prolonged mixing
PPE — Hands	Chemical-resistant (nitrile or rubber) gloves — mandatory during mixing and placement
PPE — Eyes	Safety glasses during mixing; face shield where splash risk exists
PPE — Body	Long sleeves and trousers; rubber boots — prevent wet mortar entering footwear
First Aid — Eyes	Flush with clean water for 15+ minutes; seek medical attention if irritation persists
First Aid — Skin	Remove clothing; wash all exposed skin areas thoroughly with soap and water; seek medical advice for burns
First Aid — Inhalation	Move to fresh air; rest; seek medical advice if respiratory symptoms develop
First Aid — Ingestion	Do not induce vomiting; rinse mouth; seek immediate medical attention
Disposal	Cured material: inert construction waste at licensed facility. Wet slurry: do not discharge to stormwater or drains; allow to cure before disposal
WHS Obligation	Crystalline silica risk management plan required; refer to Safe Work Australia guidance on respirable crystalline silica

8. STORAGE, SHELF LIFE & WARRANTY

Storage Conditions	Dry, cool, well-ventilated location; store off the ground on pallets or racking; keep bags sealed and undamaged
Temperature	Protect from freezing and from temperatures above 40°C during storage
Shelf Life	12 months from production date in sealed, undamaged, original packaging
After Opening	Reseal bag immediately; moisture ingress will initiate premature hydration and degrade performance
Stack Height	Maximum 6 bags high to avoid bag damage and premature compaction
Warranty Eligibility	10-Year System Warranty available when installed by a Levelcore Accredited Installer strictly in accordance with the current TDS and using the full Levelcore system
QA Submission	QA forms and installation media must be submitted within 5 working days via the Levelcore Portal or email
Warranty Contact	warranty@levelcore.com.au 1800 717 398

★ 10-YEAR SYSTEM WARRANTY ELIGIBLE ★

This Materials Data Sheet summarises product information sourced from the TruLevel™ product page at levelcore.com.au, the TruLevel TDS, and associated SDS documentation. All technical values are indicative and subject to site conditions. For complete technical specifications, application requirements, and safety data always refer to the current TruLevel Technical Data Sheet (TDS) and Safety Data Sheet (SDS). © 2025 Levelcore Industries.