FORSPEC PROTECTIVE COATINGS

FORSPEC LEVELX.



Technical Data Sheet | **High-Flow Self-Levelling and Smoothing Compound** | **Issue date: 12 August 2026**

Description

FORSPEC LEVELX is a high-flow, polymer-modified cementitious levelling compound engineered for rapid, accurate smoothing of internal floors from 1.5 mm feather-edge correction to 100 mm deep fills in a single pass. It flows to a smooth, dense, dimensionally stable surface ready for vinyl, carpet, timber, tiles, epoxy coatings and waterproofing membrane systems. Walkable in two hours and fully pumpable, it keeps large commercial pours continuous and floor programmes on schedule. Suitable for hand or pump application over concrete, screeds and correctly primed damp substrates.

Advantages

- 1.5–100 mm in a single pour — feather-edge correction through to deep fills with one product.
- Fully pumpable — suitable for continuous forced-action mixing pumps on large installations.
- Walkable in 2 hours — following trades proceed the same day, compressing floor programmes.
- 35 MPa compressive strength with a dense, durable surface for commercial floor preparation.
- Self-levelling flow formula — dense, smooth, pinhole-free finish with no sanding.
- Low shrinkage, crack-resistant matrix.
- Receives vinyl, carpet, engineered timber, ceramic tiling, polished overlays and FORSPEC waterproofing membrane systems.
- Compatible with hydronic and electric underfloor heating.
- Bulk-fill capability — extendable with aggregate for 30–100 mm sections; stiff-mix capability for ramps and falls.
- Internal and protected external applications.

Uses

- Levelling and smoothing internal concrete floors before vinyl, carpet, timber, tiles or polished overlays.
- Deep-section filling and slab regularisation from 30–100 mm using the aggregate-extended mix.
- Forming ramps, transitions and drainage falls using the stiff-mix method.
- Substrate preparation beneath FORSPEC waterproofing membrane systems in wet areas.
- Floors incorporating hydronic or electric underfloor heating.
- Protected external levelling, primed in accordance with the Priming section.

Compliance Status

FORSPEC LEVELX is a cementitious levelling material of the type covered by EN 13813 (Screed material and floor screeds — Screed material: Properties and requirements). Performance against the classification criteria:

CRITERION	CLASSIFICATION BASIS	LEVELX	TEST METHOD BASIS
Compressive strength (28 days)	Class C35 (≥ 35 MPa)	35 MPa	AS 1012.9
Flexural strength (28 days)	Class F7 (≥ 7 MPa)	8 MPa	AS 1012.11
Material type	CT — cementitious	Cementitious	EN 13813

Indicative designation: CT-C35-F7. No Australian Standard specifically governs proprietary levelling compounds; performance values are Forspec R&D characteristic data unless a test report is cited. Test reports are available on request from Forspec Protective Coatings.

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Technical Data

PROPERTY	VALUE	BASIS
Form / colour	Fine grey powder	—
Packaging	20 kg bag	—
Bulk density (powder)	1,300 kg/m³	—
Density of wet mix	2,100 kg/m³	—
Mixing water — standard mix	4.4–4.8 L per 20 kg bag	—
pH of wet mix	Approx. 11 (alkaline)	—
Application thickness	1.5–100 mm per pass	—
Open time (at 25°C, 50% RH)	20–30 minutes	—
Walkable (at 25°C, 50% RH)	2 hours	—
Waiting time before coverings (at 25°C, 50% RH)	From 24 hours, thickness-dependent	—
Compressive strength (1 / 7 / 28 days)	15 / 25 / 35 MPa	AS 1012.9 *
Flexural strength (at 1 / 7 / 28 days)	5 / 7 / 8 MPa	AS 1012.11 *
Abrasion resistance (at 28 days)	≤ 3.0 cm³/50 cm² — Class A9	EN 13892-3 (Böhme) basis *
Application temperature	10–30°C (ambient and substrate); optimal 18–25°C	—
Relative humidity during application	Below 75%	—
Drying time (at 25°C, 50% RH)	8–12 hours	—
Shelf life	Minimum 12 months, unopened bags, stored dry	—

* Typical characteristic values determined by Forspec R&D on standard production material. Abrasion resistance is stated on the EN 13892-3 Böhme basis as a typical R&D value; accredited verification is scheduled.

Consumption

Powder consumption: approximately 1.7 kg of LEVELX powder per m² per mm of thickness. Basis: wet mix density 2,100 kg/m³, of which powder is 20 ÷ 24.5 = 82% by weight — 2.1 kg/m²/mm x 0.82 = 1.72 kg/m²/mm. Worked example: a 5 mm pour over 10 m² requires 1.7 x 5 x 10 = 85 kg — approximately four and a half 20 kg bags.

Yield

One 20 kg bag mixed with 4.4–4.8 L of water produces approximately 24.5 kg of wet mix, which at 2,100 kg/m³ yields approximately 11.7 litres. Check: 20 kg ÷ 1.7 kg/m²/mm = 11.8 m² at 1 mm ≡ 11.8 L — the consumption and yield figures reconcile. Aggregate-extended bulk fill: adding 20 kg of 2–5 mm gravel increases yield by approximately 7.5 L per bag.

Coverage and Yield

THICKNESS	COVERAGE PER 20 KG BAG (STANDARD MIX)
1.5 mm	Approx. 7.8 m²
3 mm	Approx. 3.9 m²

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Coverage and Yield (continued)

THICKNESS	COVERAGE PER 20 KG BAG (STANDARD MIX)
5 mm	Approx. 2.3 m^2
10 mm	Approx. 1.2 m^2
30 mm	Approx. 0.39 m^2

Coverage is theoretical (yield ÷ thickness) and will vary with surface profile and wastage.

Limitations

- Not suitable for permanently wet or submerged service.
- External applications subject to moisture ingress require the substrate to be primed with ACTFLEX EP250, sand-seeded, to protect bond integrity.
- Apply only over stable, rigid, well-prepared substrates — not suitable for surfaces subject to movement or flex.
- Do not apply below 10°C or above 30°C (ambient or substrate).
- Mechanical surface preparation is mandatory; substrates must be free of oil, dust, curing agents, sealers and contaminants.
- Substrate moisture governs primer selection — test before priming (refer to Priming).
- Aesthetic variation when left exposed — patchiness, trowel marks or colour inconsistency — is not a defect; place a test area where appearance is critical.
- Movement and control joints must be honoured through the full LEVELX layer and the final floor finish to prevent reflective cracking.
- Never exceed the mixing water dose or re-temper stiffened material — overwatering destroys strength and surface finish.
- The wet mix is alkaline (pH approx. 11) — refer to Safety Precautions and the SDS.
- Not a final wear surface — must be covered with tile, vinyl, epoxy or another appropriate floor covering.
- Not a structural screed.
- Avoid extended exposure before covering — increases the risk of surface cracking.
- Do not allow product to enter gaps around heating pipes, particularly galvanised steel pipes — corrosion risk.

Surface Preparation

- Substrate soundness — substrates must be structurally sound, rigid and fully cured (new concrete minimum 28 days). Application constitutes acceptance of the substrate.
- Mechanical preparation is mandatory — grind, shot-blast or scarify to remove laitance and all weak, powdery or contaminated layers, producing a clean, uniformly open-textured surface to CSP 3–6 (ICRI guideline) with no glaze or residue.
- Contaminants — remove all oil, grease, paint, curing compounds, sealers and adhesive residues; vacuum-clean the prepared surface.
- Cracks — rout static cracks (under 3 mm) into a V-groove and fill with the FORSPEC epoxy crack repair range: PROBOND 1100, CRACK PRO 1200PS or CRACKLOCK E400L per their TDS. Dynamic or structural cracks are stitched with epoxy and dowels per the FORSPEC crack rectification systems before levelling.
- Movement and control joints — carry through the LEVELX layer and the final floor finish, expressed and filled with a flexible sealant or proprietary joint suited to the finish, per AS 3958.
- Moisture testing — measure substrate moisture with in-slab RH probes or a calibrated moisture meter before selecting the primer; record the readings in the project quality records.
- Edge containment — form up doorways, drains, penetrations and level changes before pouring; the mix is high-flow and will find any opening.

Priming

Priming is mandatory. Select the system by substrate condition:

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Priming (continued)

- Dry substrates (moisture content 4.5% or less) — prime with ACTFLEX 300. On rough or porous concrete use the double-prime method: apply the first coat by roller, allow it to become tacky (not dry), apply the second coat, and pour LEVELX while the second coat is still tacky.
- High-moisture substrates (over 4.5%) or green concrete (under 28 days) — apply two coats of ACTFLEX EP250 at approximately 3 m^2 per litre per coat with a medium-nap roller. While the final coat is wet, broadcast clean, dry 0.5 mm sand at approximately 700 g/m^2 to full refusal. Cure 12–16 hours at 25°C and 50% RH, then vacuum off all loose sand before pouring.
- Smooth, dense or burnished concrete — apply a slurry bond coat of 1 part ACTFLEX 300 : 1 part clean water : 2 parts LEVELX powder, mixed lump-free and brushed firmly into the surface. Pour LEVELX while the slurry is still tacky — never after it has dried.
- Build-up layers — re-prime with ACTFLEX 300 between passes once the previous layer has cured (approximately 4 hours at 25°C, 50% RH).

Mixing

Standard self-levelling mix (1.5–30 mm):

- Measure 4.4–4.8 L of clean, cool water into the mixing barrel first.
- Add one full 20 kg bag of LEVELX into the water — mix full bags only.
- Mix with a mechanical paddle (400–600 RPM) for 2–3 minutes to a smooth, lump-free, creamy consistency, scraping the sides and base.
- Allow 1 minute maturation, then remix briefly and pour immediately.

Aggregate-extended bulk fill (30–100 mm):

- Mix one 20 kg bag into approximately 3.7 L of clean, cool water.
- Blend in up to 20 kg of clean, dry 2–5 mm gravel at 400–600 RPM for 2–3 minutes until fully wetted and evenly distributed.
- Place, spread and lightly compact to remove air pockets; after initial cure (approximately 4 hours at 25°C, 50% RH), re-prime and finish with a neat standard-mix layer.

Ramping and falls mix:

- Mix one 20 kg bag into 3.3–3.7 L of clean, cool water for a stiff, non-slump consistency (approximately 2 minutes at 400–600 RPM).
- Optionally add up to 10 kg of clean, dry fine sand (300 µm) for additional body and trowelability.
- Apply by steel trowel or screed to the required slope; allow initial set, then lightly steel-trowel — do not overwork.

Rules for every mix: clean water only; never exceed the stated water dose; never re-temper after setting begins; mix only what can be placed within the 20–30 minute open time (at 25°C, 50% RH); wash tools with water immediately after use.

Application

- **Placement**
  Pour the freshly mixed LEVELX directly onto the primed substrate while the primer or slurry coat is tacky. Work in controlled sections and always maintain a wet edge — pour new material into freshly placed material to prevent cold joints and layering marks. On large areas, plan the pour sequence and mixing workflow in advance so placement is continuous from the furthest point back to the exit.
- **Spreading and finishing**
  Spread to thickness with a gauge rake, steel smoothing trowel or stand-up spreader. The compound self-levels — do not float, rework or over-trowel once placed. Immediately after placement, spike-roll the full surface in both directions while the material is wet and workable, to release entrapped air, even out surface tension and maximise flow consistency. Checks: no ridges or rake marks remaining after rolling; wet edge maintained at every junction; thickness verified with a depth gauge at falls and doorways.
- **Curing and following works**
  Protect the fresh surface from wind, direct sunlight, drafts and fans during initial set. Foot traffic from 2 hours, and topping layers, membranes or build-up passes from 4 hours, at 25°C and 50% relative humidity; through-drying 8–12 hours; bonded floor coverings from 24 hours (thickness-dependent). All times extend in colder or more humid conditions — use cool mixing water in warm conditions. For build-ups, re-prime between passes.

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Pumping and Application Equipment

FORSPEC LEVELX is suitable for continuous forced-action mixing pumps for large-area installations, and for bucket mixing and hand-tool application on smaller areas. Confirm pump settings with a trial mix, keep water dosing consistent at the pump, and never exceed the stated water range.

Timber Subfloors and Ventilation

Timber substrates must be completely dry before application to prevent mould and rot, rigid and adequately fixed. Provide continuous subfloor ventilation, particularly beneath impermeable floor coverings such as vinyl, rubber and epoxy: remove or gap perimeter strips, or install ventilated skirting boards to maintain airflow. Minimum thickness under timber flooring: 2 mm.

Thickness Guidelines

- Minimum thickness for castor-chair resistance: 1.5 mm.
- Over non-absorbent substrates (existing screeds, sound fixed adhesive residues): minimum 2–3 mm to ensure coverage and bond.
- Minimum under timber flooring: 2 mm.
- Multi-layer applications: allow full drying between coats and re-prime with a non-porous primer before each subsequent coat.
- Do not allow the compound to enter gaps between insulation and heating pipes — particularly galvanised steel pipes — to avoid corrosion risk.

Drying, Curing and Testing Times

All times below are measured at 25°C and 50% RH. Low temperature, high humidity, poor ventilation and increased thickness extend every stage — verify on site before proceeding.

STAGE (AT 25°C, 50% RH)	TIME
Mixing	2–3 minutes at 400–600 rpm, 1 minute maturation, re-mix briefly
Open time	20–30 minutes
Walkable	2 hours
Build-up layers, topping layers and membranes	From 4 hours
Drying time	8–12 hours
Coverings	From 24 hours, thickness-dependent
Strength development	15 / 25 / 35 MPa compressive at 1 / 7 / 28 days *

* Typical R&D characteristic values, not for engineering design without written FORSPEC confirmation.

Waterproofing Systems Interface

Where the floor requires waterproofing, apply a compliant FORSPEC membrane over the cured LEVELX before any finish: internal wet areas in accordance with AS 3740 using the FORSPEC liquid membrane range or FORSPEC sheet membrane range, and external areas in accordance with AS 4654.2. Tile over the membrane in accordance with the membrane TDS and AS 3958.1. For system compatibility and installation sequence on complex projects, contact FORSPEC Technical Services.

Clean Up

Clean all tools and equipment immediately with water after use and before the material hardens; hardened FORSPEC LEVELX can only be removed mechanically. Wash water and unhardened slurry must not be discharged to sewers, stormwater systems or waterways — allow washings to settle, decant the water, and dispose of solids in accordance with the relevant State or Territory environment protection legislation and local council requirements.

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Container and Waste Disposal

Hardened FORSPEC LEVELX may be disposed of as inert construction and demolition waste, or recycled where facilities accept it. Unhardened material and slurries are not to enter drains or waterways — allow to harden before disposal. Empty bags are disposed of in accordance with local council requirements; do not reuse bags. Refer to Section 13 of the SDS for detailed disposal requirements.

Quality Records

Record the batch numbers of all FORSPEC LEVELX and ACTFLEX 300 used, mixing water dosages, mix type, substrate moisture readings, primer system used, application dates, ambient conditions and layer thicknesses, as part of the project quality assurance records. Batch numbers are printed on the bag and provide full manufacturing traceability.

Storage

Store in unopened bags, off the ground on a dry pallet, in cool, dry conditions protected from moisture and humidity. Shelf life is 12 months from the date of manufacture when stored as specified. Do not use material from damaged or moisture-affected bags.

Safety Precautions and First Aid

FORSPEC LEVELX is manufactured with low-chromate cement. It contains portland cement and may contain respirable crystalline silica. The wet mix is alkaline and can cause burns to skin and eyes; dust from the dry powder is hazardous if inhaled. When handling and mixing, wear a P2 dust respirator, chemical-resistant gloves, protective eyewear and covering clothing, and mix in ventilated conditions. Wash hands before breaks and after work.

First aid — Eyes: rinse immediately with clean water for at least 15 minutes, holding the eyelids open, and seek medical attention. Skin: wash affected areas with water; remove contaminated clothing; seek medical attention for burns. Inhalation of dust: move to fresh air. Swallowed: rinse mouth, drink water, do not induce vomiting; seek medical advice. POISONS INFORMATION CENTRE: 13 11 26 (Australia-wide, 24 hours). In an emergency, dial 000. KEEP OUT OF REACH OF CHILDREN. Read the Safety Data Sheet (SDS) before use — available at www.forspec.com.au.

Warranty

Standard Product and Performance Warranty: Forspec Protective Coatings Pty Ltd as Trustee for Forspec Protective Coatings (ABN 11 204 033 631) warrants that FORSPEC LEVELX will be free from manufacturing defects and will not fail under normal usage for a period of ten (10) years from the date of purchase, when installed and used strictly in accordance with this Technical Data Sheet and Forspec's written instructions. This warranty covers the supply of the product only; it does not cover installation, application or workmanship. Remedies are limited, at Forspec's discretion, to replacement of the defective product (or defective portion) or a refund of the purchase price. The full terms, conditions and exclusions are set out in the Forspec Standard Product and Performance Warranty, available at www.forspec.com.au — key conditions include application by a suitably qualified and, where required by law, licensed applicator; use within shelf life; and installation as part of a Forspec approved system without non-approved third-party products.

Project and system warranties: extended project-specific warranties are available at the request of the applicator and must be applied for using the Forspec Warranty Request Form prior to commencement of works. Issue is subject to Forspec approval and is conditional on the use of the complete specified FORSPEC system, application in strict accordance with the current TDS by suitably qualified applicators, and completion of the project quality records described above. The warranty period and terms are as stated in the issued warranty certificate.

Claims: notify Forspec in writing within thirty (30) days of discovery of the alleged defect and within the warranty period, by post to 22/872 Canterbury Road, Roselands NSW 2196 or by email to info@forspec.com.au, including proof of purchase, installation details (date, location, installer), a description of the defect with supporting evidence, and your contact details. Forspec may inspect the site, perform testing and collect samples before determining a claim.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

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Data Sheet Currency

This Technical Data Sheet (TDS) and the corresponding Safety Data Sheet (SDS) are subject to revision as necessary to ensure compliance with relevant Australian Standards and to incorporate technological advancement. Read the most current versions before use, as application and performance data may be updated. For the latest technical information, contact Forspec Protective Coatings on (02) 8021 3517 or info@forspec.com.au. The information provided is representative and does not serve as a comprehensive specification. For specific projects, consult directly with Forspec Protective Coatings for tailored specifications. This data sheet was issued on 12/08/2026 and is valid for three years from the date of issue unless superseded by a later revision — always confirm the current version at www.forspec.com.au before use.

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