FORSPEC SCREEDX.



Technical Data Sheet | **Rapid Structural Screed with Mineralcore Technology** | **Issue date: 12 November 2026**

Description

FORSPEC SCREEDX is a pre-blended, high-strength rapid structural screed engineered with MINERALCORE technology, delivering 30 MPa compressive strength with foot traffic in 2–3 hours and tiling from 12 hours. It builds screeds from 10 mm to 100 mm across bonded, unbonded and floating systems, including screeds over underfloor heating. Factory-blended for consistent quality and easy to use — just add water, with no site batching of aggregate. The ideal substrate beneath tiling, flooring and waterproofing systems, fully compatible with the complete FORSPEC range.

Advantages

- Rapid programme recovery — walkable in 2–3 hours, tile from 12 hours.
- High early strength — 17 MPa at 1 day; 30 MPa final compressive strength.
- Engineered reduced thickness — approved at 35 mm minimum unbonded over FORSPEC membranes.
- Pre-blended at a factory-controlled 5:1 aggregate-to-binder ratio — just add water.
- Screed thickness range 10–100 mm — bonded, unbonded and floating systems.
- Bonded screeds to a 5 mm minimum, and unbonded screeds below 35 mm, achievable with the ACTFLEX 300 + FIBRE X enhanced mix and FORSPEC approval.
- Improved density and shrinkage resistance; dimensionally stable.
- Suitable for underfloor heating systems.
- Enhanced mix option with ACTFLEX 300 for superior bond strength and water resistance.
- Moisture below 4% at 24 hours — early readiness for membranes and coverings.
- Internal and external use.

Uses

- Bonded screeds (minimum 10 mm; 5 mm with the enhanced mix and FORSPEC approval) over prepared concrete.
- Unbonded screeds — minimum 40 mm per AS 3958.1; 35 mm minimum as the FORSPEC engineered screed over FORSPEC membranes.
- Floating screeds (minimum 45 mm) over insulation and acoustic layers.
- Screeds incorporating underfloor heating systems.
- Screed repairs, ramping and substrate build-up.
- Pre-waterproofing substrates and screeds under resilient flooring, in residential, commercial, retail and high-traffic public spaces.

Compliance Status

FORSPEC SCREEDX produces screed mortar of the type covered by EN 13813 (Screed material and floor screeds). Performance against the classification criteria:

CRITERION	CLASSIFICATION BASIS	SCREEDX	TEST METHOD BASIS
Compressive strength (28 days)	Class C30 (≥ 30 MPa)	30 MPa	AS 1012.9
Flexural strength (28 days)	Class F5 (≥ 5 MPa)	5 MPa	AS 1012.11
Material type	CT — cementitious	Cementitious, pre-blended	EN 13813

Indicative designation: CT-C30-F5. Screed installation, thickness and jointing comply with AS 3958.1. No Australian Standard specifically governs proprietary screed mortars; performance values are Forspec R&D characteristic data unless a test report is cited.

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Technical Data

PROPERTY	VALUE	BASIS
Form / colour	Pre-blended grey powder (graded mineral aggregate and binder, 5:1 by weight)	—
Screed thickness range	10–100 mm (bonded, unbonded and floating systems)	—
Packaging	20 kg moisture-sealed plastic-lined paper bag; 50-bag pallet (1,000 kg)	—
Water demand	1.2–1.4 L per 20 kg bag	—
Compressive strength (1 / 7 / 28 days)	17 / 25 / 30 MPa	FORSPEC R&D to AS 1012.9 *
Flexural strength (at 28 days)	5 MPa	FORSPEC R&D to AS 1012.11 *
Working time (at 25°C, 50% RH)	Approximately 60 minutes	FORSPEC R&D to EN 1015-9 *
Foot traffic (at 25°C, 50% RH)	2–3 hours	FORSPEC R&D to ASTM C403 (final set) *
Tiling (at 25°C, 50% RH)	From 12 hours	FORSPEC R&D, tiling per AS 3958.1 *
Residual moisture at 24 hours (at 25°C, 50% RH)	Less than 4%	FORSPEC R&D to ASTM D4944 (calcium carbide method) *
VOC emission	Less than 0.5 mg/m³	FORSPEC R&D to ISO 16000-9 *
Application temperature	5–30°C (ambient and substrate)	—
Shelf life	12 months, unopened bags, stored dry	—

* Typical characteristic values determined by Forspec R&D on standard production material at 25°C and 50% relative humidity. Times vary with thickness and ambient conditions.

Consumption

Approximately 16–18 kg of FORSPEC SCREEDX per m² per 10 mm of thickness.

Yield

One 20 kg bag mixed with 1.2–1.4 L of water yields approximately 11.5–12.0 litres of compacted screed. Check: 20 kg ÷ 17 kg/m² per 10 mm = 1.18 m² at 10 mm ≡ 11.8 L — the consumption and yield figures reconcile.

Coverage and Yield

SCREED THICKNESS	COVERAGE PER 20 KG BAG
10 mm	Approx. 1.15–1.20 m²
30 mm	Approx. 0.38–0.40 m²
35 mm	Approx. 0.33–0.34 m²
40 mm	Approx. 0.29–0.30 m²
45 mm	Approx. 0.26–0.27 m²

Coverage is theoretical (yield ÷ thickness), before compaction variance, falls and wastage.

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Limitations

- Apply between 5–30°C (ambient and substrate); protect from frost, rain and rapid drying during placement and early cure.
- Substrates must achieve a tensile pull strength of at least 1.5 MPa.
- Unbonded screeds: minimum 40 mm per AS 3958.1; the engineered 35 mm minimum applies only over FORSPEC membranes installed per this TDS with mesh reinforcement and a double 200-micron slip sheet (AS 4654.2 cl 2.15.2); below 35 mm only with written FORSPEC approval.
- Never exceed the water demand (1.2–1.4 L per bag); never remix or re-temper stiffened mortar.
- Do not use free-fall drum mixers.
- Moisture-sensitive coverings only once residual moisture is below the covering manufacturer's limit — measured with a carbide hygrometer.
- Movement, structural and expansion joints must be carried through the full screed and finish; control joints cut to one-third of the screed depth while workable.
- Shelf life 12 months — rotate stock and do not use material from damaged or moisture-affected bags.
- The wet mix is alkaline — refer to Safety Precautions and the SDS.

Surface Preparation

- Substrates must be structurally sound, dimensionally stable and free from contaminants, laitance, curing agents, oil, grease, loose particles and rising damp.
- Mechanically profile smooth, glazed or power-trowelled substrates by diamond grinding or shot-blasting to establish a mechanical key; vacuum-clean after preparation.
- Verify substrate tensile pull strength of at least 1.5 MPa before placement.
- Lightly moisten absorbent substrates without saturating — no free water at the time of placement.
- Non-porous substrates (metal, PVC, epoxy): prime with ACTFLEX 300 or ACTFLEX SUPERPRIME 008 per the relevant TDS.
- Cracks: rectify with the FORSPEC epoxy crack repair range — PROBOND 1100, CRACK PRO 1200PS or CRACKLOCK E400L per their TDS — before screeding.

Mixing

- Use a forced-action pan mixer, screed mixer or high-torque paddle mixer at 400–600 RPM — never a free-fall drum mixer.
- Pour 1.2–1.4 L of clean water into the mixer first.
- Gradually add the full 20 kg bag while mixing — mix full bags only.
- Mix for 3–4 minutes to a cohesive, semi-dry mortar with no lumps or dry pockets.
- The mix must hold its shape under compression and spread by trowel without slumping.
- Enhanced mix: replace the water with a 2:1 blend of water and ACTFLEX 300 (for 1.2 L total: 800 mL water + 400 mL ACTFLEX 300) for higher bond strength and improved water resistance.
- Mix only what can be placed within the 60-minute working time; never re-temper.

Slurry Bond Coat — Bonded Screeds

- The slurry bond coat is mixed from FORCEM SCREED BINDER and ACTFLEX 300 — never from SCREEDX powder.
- Mix 3 parts FORCEM SCREED BINDER : 2 parts ACTFLEX 300 by weight, with clean water added only as required to produce a creamy, brushable slurry.
- Brush or broom firmly into the cleaned, prepared substrate, filling all surface irregularities.
- Place the SCREEDX screed wet-on-wet into the slurry before it dries — never allow the slurry to skin or cure.
- Do not apply below 5°C ambient or substrate temperature.

Screed Systems

- **Bonded screeds — minimum 10 mm; 5 mm enhanced**
  Over sound, mechanically prepared concrete with the FORCEM + ACTFLEX 300 slurry bond coat mandatory. Standard minimum thickness 10 mm; a 5 mm minimum is achievable only with the ACTFLEX 300 + FIBRE X enhanced mix and written FORSPEC approval. Ideal for renovations and overlays where minimum build-up is required, with superior strength development and reduced curing time.
- **Unbonded screeds — 40 mm; engineered 35 mm over FORSPEC membranes**
  Lay over a 200-micron polyethylene slip sheet, laps 200 mm minimum, turned up at perimeters. Minimum thickness 40 mm in accordance with AS 3958.1. As a FORSPEC engineered rapid screed, FORSPEC SCREEDX is approved for a reduced minimum thickness of 35 mm at the lowest point over cured, flood-tested FORSPEC membranes, installed per this TDS on a double layer of 200-micron

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Screed Systems (continued)

polyethylene slip sheet (AS 4654.2 cl 2.15.2) with mesh reinforcement positioned centrally within the screed; thicknesses below 35 mm require written FORSPEC approval and must incorporate FIBRE X polypropylene fibres with the ACTFLEX 300 enhanced mix. No bonding slurry is used on unbonded screeds.

- **Floating screeds — minimum 45 mm**
  Over insulation panels or acoustic layers with a compressible perimeter isolation strip; mesh reinforcement is mandatory, placed centrally. For screeds incorporating underfloor heating, position reinforcement per the heating system design and commission the heating gradually after curing.

Application

- **Placement**
  Discharge, spread, compact and float within the 60-minute working time. Distribute the mix and level between screeding rails or levelling bars to the required thickness, working in bays that can be completed within the working time.
- **Compaction and floating**
  Compact solidly with mechanical tampers, screed boards or hand floats — full-body compaction develops the stated strengths and prevents surface weakness; avoid trapping air. Immediately after placement, float to close the surface and remove ridges using wooden or magnesium floats, with polyurethane floats or steel trowels for higher-smoothness finishes after primary compaction. Checks: no slump under trowel; surface closed without added water; falls and levels verified before the surface tightens.
- **Joints**
  Perimeter joints: compressible joint tape or foam strips at all walls, columns and fixed elements. Control joints: cut to one-third of the screed thickness with a groover or trowel while the screed is workable, at the spacing required by AS 3958.1 or the project design. Carry all substrate expansion joints through the full screed thickness and the finish.
- **Curing and following works**
  Protect from rapid drying, wind, direct sun and frost during early cure. Foot traffic from 2–3 hours and tiling from 12 hours, at 25°C and 50% RH, per AS 3958.1. Waterproofing membranes once residual moisture is below 4.5%, and moisture-sensitive coverings once below 4% (from 24 hours), verified with a carbide hygrometer.

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	3–4 minutes to a cohesive, semi-dry mortar
Working time	Approx. 60 minutes
Placement, compaction and floating	Within the 60-minute working time
Foot traffic	2–3 hours
Tiling	From 12 hours, per AS 3958.1
Residual moisture below 4%	24 hours
Waterproofing membrane application	From 24 hours, moisture verified *
Strength development	17 / 25 / 30 MPa compressive at 1 / 7 / 28 days *

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

Membrane and Tiling Interface

FORSPEC SCREEDX is the engineered reduced-thickness screed of the FORSPEC waterproofing system. Over cured, flood-tested membranes from the FORSPEC liquid membrane range or the FORSPEC sheet membrane range: install unbonded over a double 200-micron slip sheet (AS 4654.2 cl 2.15.2) at 35 mm minimum per the Screed Systems section, in accordance with the relevant membrane

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Membrane and Tiling Interface (continued)

TDS. Tiles are fixed to the screed in accordance with AS 3958.1, from 12 hours. Where a membrane is applied over SCREEDX, apply once residual moisture is below 4.5%, per the membrane TDS.

Clean Up

Wash all tools and mixing equipment thoroughly with clean water immediately after use and before the product sets; wash slurry tools separately to avoid contaminating fresh screed mixes. Hardened material can only be removed mechanically. Wash water and residues 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.

Container and Waste Disposal

Hardened FORSPEC SCREEDX 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 SCREEDX and ACTFLEX 300 used, water dosages, mix type (standard or enhanced), placement dates, ambient conditions, screed thicknesses, joint locations and carbide hygrometer readings, 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 SCREEDX 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. Avoid kneeling in wet screed. 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 SCREEDX 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

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Warranty (continued)

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.

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 12/11/2026 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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