

QX 550 Extended Fiber: The Uncompromising Solution for Any Substrate.

Introducing the pinnacle of our self-levelling range. QX 550 Extended Fiber is an elite, polymer-modified, fiber-reinforced compound engineered for the most challenging projects where speed, strength, and occupant health are non-negotiable. It is the single definitive solution for professionals who require absolute performance without compromise, from interior timber floors to exterior waterproofed decks.

Why QX 550 is in a Class of Its Own:

- **The Ultimate Problem Solver: Fiber-Reinforced for Timber**
 - Its interlocking fibers provide superior flexural strength, making it the only choice for confidently overlaying challenging substrates like timber, plywood, and particleboard without risk of cracking or failure.
- **Revolutionary Dry-to-Cover Speed**
 - Engineered with advanced rapid-dry chemistry, Q550 achieves a **dry state (approx. 3% moisture content) within 24 hours**, a critical feature that fast-tracks the entire flooring system. *(do not apply waterproofing on substrates with residual humidity >4%)*
- **Eliminate the Moisture Barrier Step**
 - Thanks to its incredible drying speed, you can apply epoxy coatings or waterproofing membranes directly onto the Q550 without the cost and labour of a separate moisture barrier, saving a full day on critical path timelines.
- **Total Versatility: True Interior & Exterior Performance**
 - Advanced polymers provide exceptional weather and moisture resistance, making Q550 a single, reliable solution for levelling everything from internal living areas to external balconies and patios with up to 100mm of application thickness.
- **Industrial-Grade Strength (40MPa)**
 - Our highest compressive strength formula creates an incredibly durable surface, perfect for high-traffic commercial environments, workshops, and areas subject to heavy point loads and rolling traffic.
- **Designed for a Healthier Space**
 - As our premium offering, Q550 is built on an **ultra-low VOC** platform, ensuring it contributes to healthier indoor air quality for the most sensitive environments.

Suitable for:

- Internal & External applications
- Suitable for use over concrete floors, timber floors, particle board, and Compressed Fibre Cement sheeting
- Residential and commercial applications

- New construction
 - Refurbishment of old floors
 - Underlayment for carpet, carpet tiles, timber and ceramic tiles
 - Suitable for use under epoxy and polyurethane floor coatings
 - Suitable for use with under floor heating systems
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Surface Preparation:

Concrete:

Concrete floors must be structurally sound, clean and dry. Surface must be mechanically prepared and be free from dust, dirt, wax, grease, asphalt, latex compounds, adhesives, paint, curing and sealing compounds and other contaminants. Concrete must be free from efflorescence and not be subject to hydrostatic pressure.

All concrete sub floors must be fully cured and dry in accordance with AS 1884. Ambient temperature, surfaces and materials should be maintained at temperatures higher than 10°C and below 35°C.

All concrete sub floors must be fully cured and dry in accordance with AS 1884 (Less than 75% relative humidity when measured in accordance with ASTM F2170). Ambient temperature, surfaces and materials should be maintained at temperatures higher than 10°C and below 35°C. For floors with a high humidity content or subject to rising damp, apply QX Vapour Block. Refer to the QX Vapour Block TDS for details.

Timber and CFC Floors:

Ensure that all new or existing timber and CFC flooring is fixed in accordance with the manufacturer's recommendations and any relevant Australian Standards. They should be firmly fixed to the background (showing no signs of excessive movement), have adequate load bearing capacity, and be dimensionally stable. The boards need to be dry and showing no signs of delamination. Surface must be free from dust, dirt, wax, grease, asphalt, latex and gypsum compounds, adhesives, paint, sealers or coatings, and any other contaminants which may act as a bond breaker. Any materials which are contaminating the surface, must be removed by mechanical abrasion, to provide a clean, non-contaminated surface. Some particle boards have a form of wax impregnation on the surface, which must be mechanically removed. If in doubt, refer to the flooring manufacturer for instructions. After mechanical abrasion, remove all dust and debris from the floor by vacuuming the surface with a suitable H Class industrial cleaner – must be equipped with a Hepa filter

Priming:

Using a soft brush or broom, prime the prepared concrete area with QX XFlow Primer and allow primer to dry. A second coat of primer may be necessary on areas with very porous surfaces where the initial coat has been completely absorbed. Allow the primer to fully dry to a clean, thin film (approx. 1- 2 hours) before applying Q550. Low temperatures can delay the drying time of primer. Do not apply Q550 until the primer has dried completely.

Refer to the datasheet for QX XFLOW Primer for more detailed use and coverage information.

Mixing:

Place the recommended 4.4-4.6 litres of potable water into a clean mixing vessel and slowly add the entire 20kg contents of Q550 Extended Fiber while mixing using a heavy duty mechanical forced mixer (600rpm). Mix for approximately 2 – 3 minutes to a lump free consistency. Use mix within 15 minutes after mixing, be sure to only mix a quantity that can be use within this time.

- Do NOT use concrete or masonry mixers to mix Q550.
- Do NOT mix by hand.
- Do NOT attempt to retemper mixed product.
- Do NOT overwater Q550, use only the recommended mix water volume.

Application:

Pour or pump the mixed Q550 Pro Flow onto the prepared substrate and spread into place using a long handled gauged spreader. Application shall be continuous into the preceding flowable material to ensure even thickness throughout. Do not fill new material in the middle of proceeding material. Q550 Pro Flow seeks its own level during the first 10-15 minutes and can be applied up to 30mm thick in one application.

Subsequent applications of leveller should be made whilst the material on the floor is still fluid and has a wet edge, to allow for easy blending. When applying the Q550 over concrete, it must be applied at a minimum thickness of 1.5 mm and can be applied up to 30mm thick in one application. When applying the Q550 over timber or CFC substrates, it must be applied at a minimum thickness of 1.5 mm and can be applied up to 30mm thick in one

application. Thicker applications should be carried out in multiple pours and may require a longer cure.

It is recommended that spiked boots be worn, to minimise any indentations in the leveller whilst still fluid.

Application over Underfloor Heating:

The subfloor should have been laid and prepared in accordance with Australian Standard AS 1884. The underfloor heating system should have been commissioned in accordance with the manufacturer's instructions and in accordance with Australian Standard AS 1884. Once the heating system is fully commissioned, application of Q550 should be made in accordance with the information in this TDS and the requirements put down in AS1884. Application of any subsequent floor coverings should be made in accordance with the floor covering and flooring adhesive manufacturers instruction.

Set Time:

Allow curing time of 3 hours at 23°C for walkable foot traffic and 12-24 hours at 23°C before applying floor coverings. Drying times will be impacted by air temperature, air flow, relative humidity and layer thickness. Thicker layers will extend drying times.

Coverage:

20kg bag of Q550 Pro Flow will cover approximately 4 sqm at 3mm thickness.

Clean Up:

Wash all tools in water immediately after use.

Packaging:

20kg bags.

Shelf Life & Storage:

12 months from date of production if stored indoors in undamaged and unopened bags. Store in dry conditions, in unopened and undamaged bags and in temperatures below 30°C.

If stored in excessive temperature conditions, externally exposed to the elements or in high humidity conditions, the shelf life may be reduced.

Q550 Pro Flow – Product data

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| Compressive Strength | After 1 Day Approx. 15mpa After 7 Days Approx. 27mpa After 28 Days Approx. 40mpa |
| Tensile Bending Strength | After 1 Day Approx. 5mpa After 7 Days Approx. 6mpa After 28 Days Approx. 7mpa |
| Color | grey |
| Mixing ratio | 4.8-5.0 Litres of clean, cool water |
| Working time | 20-30 minutes |
| Pack size | 20kg/bag |
| Shelf life | 12 months |
| Ambient air temperature | 10°C-35°C |
| Coverage | Approximately 4 sqm at 3mm thick |
| VOC Level | <0.5 mg/m ³ |

Testing Parameters: 23% of water. Laboratory at: 23 +/- 2°C > 50% RH. The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site conditions.

Precaution:

- This product is designed as an underlayment and must not be used as trafficable wearing surface.
- Do not apply at a temperature less than 10°C. Consider using cooled water for mixing the product. Do not apply in temperatures above 35°C. And the relative humidity below 75%.

Important notice:

A safety Data Sheet (SDS) is available from the QX website (qxmaterial.com.au). Please read the SDS carefully prior to using this product. In an emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia).

Product disclaimer:

Recommendations and advice regarding the use of this product are to be taken as a guide only. The manufacturer of this product and any of its affiliate companies cannot be held responsible for any loss or damage arising from the incorrect usage of this product. The use of this product is beyond the manufacturers control, and liability is restricted to the replacement of material should the product be proven faulty. The information contained herein is to the best of our knowledge, true and accurate. We reserve the right to update information without prior notice. No warranty is implied or given to its

completeness or accuracy in describing the performance or suitability of the product for a particular application.
