



TECHNICAL DATA SHEET – RENOSCREED FIBRE 0350

Product Overview

RENOSCREED FIBRE 0350 is a high-performance, fibre-reinforced, cement-based levelling compound designed for professional use over a variety of substrates. It can be applied from **3mm to 50mm** in one application and is suitable for use with underfloor heating systems.

It is fast setting, shrinkage compensated, and provides a durable, smooth surface ready to receive most types of floor coverings.

Applications

- Sand/cement screeds
- Concrete
- Calcium sulphate screeds
- Asphalt
- Plywood/chipboard/timber boards
- Ceramic, quarry, and stone tiles
- Underfloor heating systems

| Property | Value |
|------------------------------------|-------------------------------------------------------|
| Packaging | 20kg lined paper sacks |
| Water addition | 3.2-3.6 litres per 20kg |
| Application thickness | 3mm to 50mm in one application |
| Working time | 20–30 minutes at 20°C |
| Foot traffic | After 3 hours |
| Time to tile | After 24 hours |
| Time to receive resilient finishes | After 72hours |
| Compressive strength (EN 13892-2) | 1 day: >15 MPa 7 days: >25 MPa 28 days: >30 MPa |
| Flexural strength (EN 13892-2) | 1 day: >4 MPa 7 days: >6 MPa 28 days: >7 MPa |
| Consumption | Approx. 1.8kg/m ² /mm |
| Coverage per 20kg bag | ~1.4m ² at 10mm |

Renoscreed

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Key Benefits

- Apply from 3mm to 50mm in a single pour
- Fibre-reinforced for increased strength and crack resistance
- Foot traffic in 3 hours
- Pumpable and protein-free
- Excellent adhesion and durability
- Compatible with underfloor heating
- Shrinkage compensated

Substrate Preparation

The substrate must have a **minimum surface strength of 1 N/mm²**. It is essential that the substrate is thoroughly prepared and **primed with Renoscreed Primer RTU or Renoscreed Grit Prime (refer to TDS)** prior to the installation of **Renoscreed Fibre 0350**.

The substrate should be:

- Clean and free from dust, grease, laitance, and other contaminants that may impair adhesion.
- Structurally sound and free from cracks or movement.
- Dry and at a temperature between **+10°C and +25°C**, with a relative humidity **below 95%**.

Perimeter isolation should be installed using 8mm x 100mm foam around all walls, columns, and fixed upstands to prevent stress transfer.

Large deviations or hollows in the substrate exceeding 50mm should be filled using **Renoscreed Fibre before overcoating**. Once this has hardened, the area should be re-primed before applying Renoscreed Fibre topping.

All holes, cracks, and joints in the substrate should be properly sealed. Vacuum the area thoroughly and apply **Renoscreed Primer RTU** in accordance with its data sheet. Multiple coats may be required on highly porous substrates (e.g. cast in-situ concrete). If multiple layers of screed are to be applied, each layer must be re-primed before applying the next.

Priming ensures optimum adhesion, prevents air release and dewatering of the screed, and improves flow characteristics.

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Mixing

Renoscreed Fibre 0350 should be mixed using an approved automated screed mixing pump. The recommended **water addition is 17-18%**, equating to **3.2-3.6 litres per 20kg bag**. Do not exceed the specified water content, as excess water will reduce strength, increase shrinkage and may cause segregation.

Mixing water content should be continuously verified using a **flow ring test**. A correct mix will provide a flow of **220–235mm**. Reduced water will increase viscosity and make the product more difficult to apply.

For **manual mixing**, use a slow-speed electric mixer (~500 rpm) for at least 2 minutes, ensuring a lump-free consistency. Allow the mixed product to stand for 2 minutes before application.

The mixed material should be used within its working time and should be protected from draughts and rapid drying.

Application

Ensure **light ventilation** but avoid strong air movement. All doors and windows must remain closed during application and for at least 72 hours afterward to avoid rapid drying and potential cracking.

Ambient and substrate temperatures must remain between **+10°C and +25°C** for at least 7 days post-application.

For best results:

- Divide large floor areas into bays of **6 -10 metres**, depending on application thickness and pump output.
- Use **Renoscreed Perimeter Foam** or equivalent to form bays and stop-ends.
- Apply continuously, maintaining a wet edge between sections.
- Use a **trowel or dapple bar** to aid levelling and ensure a smooth finish. Finish where possible with a Spiked roller

Renoscreed Fibre is suitable for bonded applications and may also be applied over:

- Flooring grade insulation – Min compressive strength 100kPa (min. 25mm thickness with Renoscreed Glass Fibre mesh included)
- Timber floors

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- Underfloor heating systems (pipes must be securely fixed and pressure tested)
- Stable and established bitumen surfaces

Where applicable, **Renoscreed Grit Prime** or **Renoscreed Glass Fibre Mesh** may be required. Minimum application thicknesses must be observed for specific substrates.

For technical advice, please contact Renoscreed support (details below).

Overlaying and Floor Finishes

Renoscreed Fibre is compatible with most floor coverings and adhesives. The screed surface must be dry and free of laitance before application of any floor finish.

The screed must not be left exposed or painted without a suitable covering.

Drying & Covering Times

- **Foot traffic:** 3-4 hours at +20°C
- **Light grinding (if required):** After 48 hours
- **Floor coverings:** As early as **3 days**, depending on layer thickness and site conditions

At **5mm thickness** in controlled conditions (23°C, 50% RH), coverings may be applied after 3 days. At **50mm**, allow up to **7 days**.

Actual drying times may vary depending on substrate porosity, thickness, temperature, and humidity. High humidity or low temperatures will extend curing and covering times.

Limitations

- Do not apply below 5°C or above 30°C.
- Not suitable for permanent water immersion.
- Ensure substrate moisture content is within acceptable limits before application.

Storage & Shelf Life

Store unopened in a cool, dry place. Use within **9 months** of manufacture.

Health & Safety

This product is not classified as hazardous. A full Material Safety Data Sheet (MSDS) is available upon request.

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Bag Calculator

| Thickness (mm) | Area (m ²) | | | | | | | | | | | |
|----------------|------------------------|---|---|----|----|----|----|-----|-----|-----|-----|-----|
| | | 1 | 2 | 5 | 10 | 15 | 20 | 25 | 50 | 75 | 100 | 200 |
| | 3 | 1 | 1 | 2 | 3 | 5 | 6 | 7 | 14 | 21 | 27 | 54 |
| | 5 | 1 | 1 | 3 | 5 | 7 | 9 | 12 | 23 | 34 | 45 | 90 |
| | 10 | 1 | 2 | 5 | 9 | 14 | 18 | 23 | 45 | 68 | 90 | 180 |
| | 15 | 2 | 3 | 7 | 14 | 21 | 27 | 34 | 68 | 102 | 135 | 270 |
| | 20 | 2 | 4 | 9 | 18 | 27 | 36 | 45 | 90 | 135 | 180 | 360 |
| | 25 | 3 | 5 | 12 | 23 | 34 | 45 | 57 | 113 | 169 | 225 | 450 |
| | 30 | 3 | 6 | 14 | 27 | 41 | 54 | 68 | 135 | 203 | 270 | 540 |
| | 35 | 4 | 7 | 16 | 32 | 48 | 63 | 79 | 158 | 237 | 315 | 630 |
| | 40 | 4 | 8 | 18 | 36 | 54 | 72 | 90 | 180 | 270 | 360 | 720 |
| | 45 | 5 | 9 | 21 | 41 | 61 | 81 | 102 | 203 | 304 | 405 | 810 |
| | 50 | 5 | 9 | 23 | 45 | 68 | 90 | 113 | 225 | 338 | 450 | 900 |

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