



## TECHNICAL DATA SHEET – RENOSCREED HI-BOND (EPOXY PRIMER / DPM)

### Product Overview

**RENOSCREED HI-BOND** is a high-performance, solvent-free, two-component epoxy resin system designed for use as both a surface damp proof membrane (DPM) and a bonding primer. It creates a strong chemical and mechanical bond to cementitious substrates and is suitable for internal applications where moisture control or a high-strength bond is required.

Available in red and black finishes, Renoscreed Hi-Bond provides clear visual coverage, making it ideal for professionals preparing critical floor areas for screeding or levelling.

### Applications

- Concrete floors and cementitious screeds
- Power-floated and dense concrete
- Substrates with up to 97% RH moisture
- Bonded screeds using sand/cement systems
- Epoxy DPM beneath smoothing or levelling compounds
- Primer for thin-section screeds (e.g. Renoscreed Fibre, Renoscreed Contract)

### Key Benefits

- Dual-purpose: DPM and bonding primer
- High-performance adhesion to dense and porous substrates
- Ideal for thin-section screeds and bonded cement screeds
- Single-coat or two-coat application flexibility
- Moisture tolerant – up to 97% RH
- Fast-curing and visually traceable application
- Compatible with Renoscreed Fibre, Contract, and Quartz Scatter

Renoscreed

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## Technical Data

Property	Value
Packaging	6kg and 12kg two-component units
Colour	Red or Black
Pot life	45 mins at 20°C / 90 mins at 10°C
Tack-free time	~6 hours at 20°C
Full cure	<b>~8–10 hours</b>
Application thickness	Approx. 0.3mm per coat
Coverage (per kg) First coat	~3m <sup>2</sup> /kg
Coverage (per kg) Second coat	~4m <sup>2</sup> /kg
Adhesion strength	>1.5 MPa (substrate dependent)
Vapour permeability	<5g/m <sup>2</sup> /24hrs
Compressive / Flexural Strength	>50 MPa
Water absorption	<0.2% (7 days)

## Substrate Preparation

All substrates must be:

- Sound, dry to the touch, and free of laitance or contamination
- Mechanically prepared (grinding, shotblasting, or STR)
- Minimum compressive strength: 25 MPa
- Free of standing water – surface must be surface-dry

Moisture content must be tested in accordance with BS8203. Renoscreed Hi-Bond can be used where surface moisture is ≤97% RH.

## Mixing

1. Add full contents of Part B (hardener) to Part A (resin).
2. Mix using a slow-speed mechanical paddle for **at least 2 minutes** until fully uniform.
3. Do not dilute. Use immediately after mixing.

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## Application Options

### A) Single Coat System – Bonding Agent (with Renoscreed Quartz Scatter)

Ideal for use beneath thin-section levelling compounds (e.g. Renoscreed Fibre or Contract):

1. Apply a single uniform coat at  $\sim 3\text{m}^2/\text{kg}$  by roller or brush.
2. While the resin remains tacky, fully broadcast Renoscreed Quartz Scatter (1–2mm silica) at  $\sim 2\text{kg}/\text{m}^2$ .
3. Allow the system to fully cure (typically  $\sim 8\text{--}10$  hours at  $20^\circ\text{C}$ ).
4. Remove excess loose aggregate by sweeping and vacuuming.
5. Apply levelling screed over the textured surface.

**⚠** The Quartz Scatter provides the necessary mechanical key. Do not screed over the resin unless the scatter has been applied and the resin has cured. For thin screeds less than 20mm Renoscreed Grit Prime may be used over the smooth resin to improve texture and adhesion – providing the area is not to be used in high traffic areas or subject to FLT or pallet truck usage

### B) Two Coat System – Surface DPM with Bonding Key

Use where a damp-proof membrane is required:

1. First Coat (Base layer)
  - Apply Hi-Bond at  $\sim 3\text{m}^2/\text{kg}$  (red or black colour).
  - Allow to dry (6–8 hours) until tack-free.
2. Second Coat (Top layer)
  - Apply the second coat at  $\sim 3\text{m}^2/\text{kg}$  using the alternate colour (red or black).
  - Immediately broadcast Renoscreed Quartz Scatter onto the wet resin ( $\sim 2\text{kg}/\text{m}^2$ ).
  - Allow to fully cure ( $\sim 8\text{--}10$  hours), then sweep and vacuum any loose aggregate.
3. Screeds or smoothing compounds can then be applied over the keyed surface.

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## C) Wet-on-Wet Application for Bonded Sand/Cement Screeds

For bonded screed systems:

- Apply one coat of Renoscreed Hi-Bond to concrete substrate at  $\sim 3\text{m}^2/\text{kg}$ .
- While resin is still wet, compact the freshly mixed sand/cement screed directly into the resin layer.
- Screed must be placed wet-on-wet to ensure full chemical and mechanical bond.
- Do not allow resin to dry before screeding in bonded applications.

### Note:

Do not dilute. Apply only to suitably dry, well-prepared surfaces. Always ensure compatibility with cementitious products used afterwards.

### Important:

Do not apply primer over dusty, contaminated, frozen, or damp surfaces. Avoid using in temperatures below  $+5^\circ\text{C}$  or above  $+30^\circ\text{C}$ .

### Limitations

- Do not apply below  $+5^\circ\text{C}$  or in humid/rising damp environments
- Not suitable for outdoor use
- Once cured, surface cannot be used as a bonding layer without mechanical keying
- Do not apply to surfaces with standing water

### Storage & Shelf Life

Store unopened in a cool, dry place. Use within **12 months** of manufacture.

### Health & Safety

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

### Cleaning & Disposal

Clean all tools and equipment immediately after use with clean water. Do not allow to dry on tools. Dispose of contents and container in accordance with local regulations.

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