

ENDURASCREED

SYSTEM DATA SHEET

Heavy duty shrink free epoxy-based mortar



Technical Snapshot

Compress Strength

Resin to Sand Ratio by Weight

1:6 > 60 MPa

1:8 > 50 MPa

1:10 > 40 MPa

Bond Strength to Concrete

> 1.5 MPa

Fire Resistance AS ISO 9239.1:2013

CRF >7 kW/m²

Smoke development rate <400%/minute

VOC ASTM D3960

27 g / Litre. Conforms to Green Start Design & As Built and Interiors



Feature & Benefits

- Shrink free mortar
- High compressive strength at low thickness
- Quick Cure, Ultrafast available 3 hour walk on
- No wait time for moisture level to drop like cement based screeds
- Excellent bond strength
- Build from 1mm – 200mm
- Heavy traffic and load



Typical Uses

- Forming coving at floor wall junction
- Forming falls to drain
- Forming ramps
- Repair of industrial floors
- Screed topping
- Rebuild of floor joints



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Preparation and Substrate Requirement

- Suitable substrates include concrete, compressed fibre cement and mineral-based substrates
- Substrate must have a minimum compressive strength of 25 MPa and tensile bond strength of 1.5 MPa.
- Substrate must be free from rising moisture and have an effective damp proof membrane beneath.
- Substrate moisture content must be below 4.5% by weight when tested in accordance with ASTM F2659
- Surface must be sound, dry and free from loose material, laitance, old coatings, dust and surface contaminants, including oil, grease, chemicals, release agents and curing compounds.
- Concrete must be suitably prepared to ensure good coating adhesion. This can be achieved by diamond grinding or shot blasting to a minimum ICRI CSP 3 surface profile.
- Remove all loose material by industrial vacuum cleaning.

Application Conditions

- Substrate surface temperature must be at least 3°C above the dew point during application and initial cure.
- Ambient and substrate temperatures should be between 10°C and 35°C during application and curing.
- Relative humidity must be below 85% during application and initial cure.

Curing Time

- Pedestrian Traffic: 24 Hours at 20°C
- Vehicle Traffic: 72 Hours at 20°C
- Full cure: 7 days at 20°C
- Ensure no water contact for at least 5 days at 20°C
- Curing times are subject to change depending on ambient temperature

For Specifier

Specify:

"Floor System to be Endurascreed as manufactured by A&I Coatings P/L."

Options	Thickness	Slip Rating	Colour	Finish
	Variable	N/A	N/A	N/A

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System Build Up

Refer to individual Technical Data Sheet for detailed product information

- Apply Enviroset 4111 at 3 m²/L by roller.
- If Enviroset 4111 is fully absorbed into concrete, a second coat of Enviroset 4111 is required. A non-absorbed film must remain.
- If primer become tack free, a fresh coat of Enviroset 4111 is required.
- Whilst Enviroset 4111 wet and tacky, Apply Enviroset 4111 mixed with sand at the ratio of 1:6 – 1:10 by weightW. Compact / screed and steel trowel to a uniform finish.
- The blend of kiln dried sand is a combination of grades to effect a closed compacted screed. Contact A&I Coatings for further information on combination of blend.



Important Note

- Endurascreed is not to be left as a finish. It should be overcoated with 2mm of Endurafloor SL / SR.
- If there is any doubt regarding substrate suitability, conduct a site test before application.
- Do not apply over substrates with rising damp or hydrostatic pressure.
- Expansion joints must be reflected through the system and filled with a flexible joint sealer after system application.
- Dynamic crack movement may transfer through the floor system and may result in a visible cracking at the surface.
- Coverage rates are approximate and may vary depending on substrate condition, surface profile, application method and site conditions. Conduct site tests to verify actual coverage.
- Do not expose the system to chemicals, heavy traffic or wash-down until full cure has been achieved.
- Users must read the Safety Data Sheet for each product used in the system and familiarise themselves with all safety, handling and personal protective equipment requirements before use.