ENDURASCREED

SYSTEM DATA SHEET

Heavy duty shrink free epoxy-based mortar.

A&I COATINGS

FEATURES & BENEFITS

- Shrink free mortar
- High compressive strengths still achieved at minimum thicknesses
- Can take industrial traffic and loads
- Excellent Bond strength
- Can achieve Builds from 1mm-150mm
- Quick cure

TECHNICAL SNAPSHOT

COMPRESSIVE STRENGTH
40-85Mpa dependant on Mix design

BOND STRENGTH TO CONCRETE
>1.5Mpa

DRY HEAT RESISTANCE
120ºC

VOC
27grams/Litre ,conforms to Green Star Design

DENSITY
2-2.2kg/Litre dependant on mix design
(20-22kg screed weight per m2 at 10mm thick)

TYPICAL USES

- Forming Coving at floor/wall junctions
- Forming falls to drains
- Screed topping
- Repair of industrial floors
- Rebuilding of Joints that are damaged and broken

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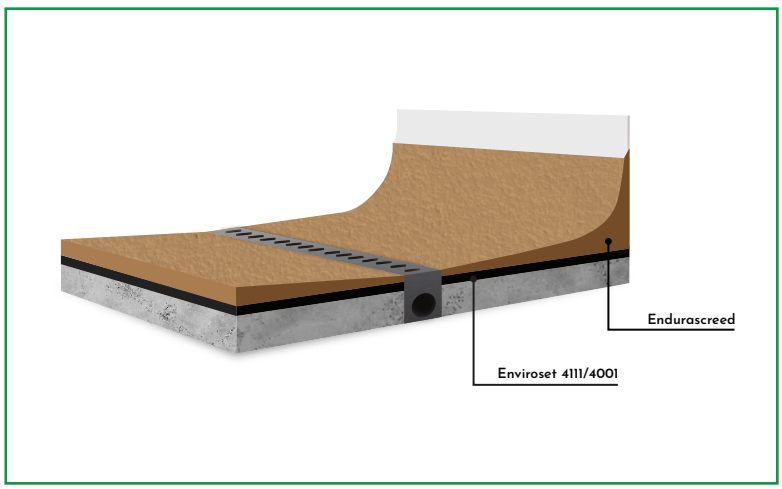
PREP AND SUBSTRATE REQUIREMENTS

- Suitable substrates are concrete, CFC and mineral based substrates.
- Substrate to be min 25Mpa compressive strength and 1.5Mpa pull off value.
- Substrate must be free of rising moisture and must have an effective damp proof membrane.
- Substrate moisture content must be below 4% pbw.
- Surface must be sound, dry, free from all loose material, laitance, old coatings, dust and surface contaminants (e.g. oil, grease, chemicals, release/curing agents etc.).
- Concrete must be suitably keyed to ensure good coating adhesion. This can be achieved by diamond grinding to minimum ICRI CSP 3.
- Remove all loose matter through vacuum cleaning.

ATMOSPHERIC REQUIREMENTS

- Substrate surface temperature to be 3°C above dew point during installation and initial set
- Below 85% RH
- Application temperature between 10 – 30°C

SYSTEM BUILD UP refer to individual product sheets for detailed product information.



APPLICATION:

- 1/Primer: Enviroset 4111/4001 applied by roller at @3m2 Litre . Whilst this primer is still wet and tacky (45mins at 22 degrees C install the Endurascreed). If the primer becomes tack free a fresh coat of primer should be applied.
  If primer coat completely absorbs into concrete a second coat is required before applying mortar.
- 2/Endurascreed can be mixed in differing resin to sand ratios achieving differing compressive strength values.

  Enviroset 4111 resin: Kiln dried Sand pbw

  1:6: >60Mpa
  1:8: >50Mpa
  1:10 >40Mpa

The Kiln dried blend of sand is a combination of grades to effect a closed compacted screed. Contact A&I Coatings for further information on blends.

Once the Enviroset 4111 is mixed with the Kiln dried sand forming the Endurascreed mortar it is then installed to a wet primer. It is compacted, screeded and steel trowel finished to a uniform finish.

CURING TIMES

- Pedestrian traffic: 24hrs at 22°C at 60% humidity.
- Vehicle Traffic: 48hrs at 22°C at 60% humidity.
- Full cure: 7 days at 22°C at 60% humidity.
- Curing times are subject to change depending on the ambient temperature.
- Ensure no water contact for at least 5 days.

FOR SPECIFIERS

SPECIFY:

"Floor screed to be Endurascreed, high strength, shrink free as supplied by A&I Coatings"

IMPORTANT NOTES

- The endurascreed is not to be left as a finish. It should be overcoated with Endurafloor SR/SL.
- Any expansion joints must be reflected through the system and filled with a flexible joint sealer after system application.
- Any dynamic crack movement may transfer through the floor system and result in a visual crack on the surface.