

# Enviro Rapid Screed

## RAPID SET ENGINEERED SCREED CEMENT

**Enviro Rapid Screed** is a rapid set screed cement that has been designed for all types of floor coverings and is especially effective when installing moisture sensitive coverings. In addition it is compatible with Envirosystems decorative flooring range. Enviro Rapid Screed produces a screed that improves on-site efficiencies by allowing traffic shortly after application and laying of the floor covering after 24 hours

### FEATURES AND BENEFITS

- Fast track – Ready to receive tiles, natural stone and terrazzo tiles after 24 hrs
- Ready to receive resilient and textile floor coverings and parquet after 24 hrs
- For interior and exterior use
- Dimensionally stable
- Working time – up to 60 mins

### APPLICATION SOLUTIONS

Enviro Rapid Screed can be used for internal and external applications under various floor coverings:

The screed can be used as a:

- Bonded screed
- Un-bonded screed (on a slipsheet or insulating layer)
- Heated screed

For the installation of:

- Tiles
- Natural Stones
- Terrazzo
- Resilient and textile floor coverings
- Parquet

### PRODUCT INFORMATION

**Packaging:** Enviro Rapid Screed is supplied in 20kg bags.

**Shelf life:** Enviro Rapid Screed can be stored in its original sealed containers for 12 months in controlled environments.



WATERPROOFING



## Directions for Use

Suitable substrates are: New and existing concrete. For other substrates, further information on substrate preparation or for project specific advice, please consult EnviroSystems.

### SUBSTRATE PREPARATION

Surfaces must be clean, dry, and free from contamination such as dust, laitance, grime, grease, coatings, and curing compounds. Remove all sharp edges including screws, nails and concrete/mortar projections.

### MIXING

Using horizontal forced action mixers or screed pumps, mix 20kg Enviro Rapid Screed with 80kg graded aggregate (not gravel) 0 – 8mm; gradually add 6 – 8L of clean water (mixing water may vary depending on the moisture content of the graded aggregate). Mixing time is 2 minutes. It is important not to overfill the mixer above the recommended volume. Ideally, the mixing drum should only be filled up to  $\frac{3}{4}$  of the volume. Overfilling of the drum will result in poor mixing.

The total amount of mixing water to be used must not exceed 11 litres per bag of Enviro Rapid Screed. Do not add any additives such as compound oils etc and do not mix with other cements. The working time of the Enviro Rapid Screed is approximately 1 hour depending on site conditions.

Mixing, application, levelling and smoothing must succeed each other within 10 minutes. The areas should only be of such a size that they can be completed within this working time. Higher temperatures shorten, whilst lower temperatures lengthen working and hardening times.

### APPLICATION

For bonded screeds and to ensure maximum bond to the substrate, a slurry mix has to be produced. Mix 10 litres of water with a 20kg bag of Enviro Rapid Screed (add powder slowly) using a tile glue mixer and mix to a smooth consistency. Then add 10 litres of Enviro Additive STX until a smooth slurry is achieved. The slurry then has to be applied by brush or long nap roller for a 0.5m to 1mm thick film, just before Enviro Rapid Screed for a wet on wet to the Enviro prime GT1 primed substrate.

The fast-drying properties of the screed need to be observed. If in doubt install a test area. For dense, smooth, steel trowel-finished concrete, grind and prime with Enviro Prime GT1. Do not apply at temperatures below 5°C.

Expansion joints must be brought through the screed. If screeding the floor in more than one application or if screeding will stop for longer than one hour, cut a vertical line in the screed and insert starter bars for the next pour. For further information regarding application or for project specific advice, please consult EnviroSystems.

### THICKNESS

The nominal screed thickness for unbonded Enviro Rapid Screed mix is at least 35mm thick. When a floor heating system is installed, the recommended thickness is 45mm. For a bonded screed thickness must be at least 10mm and a maximum of 35mm for one application. Unbonded Enviro Rapid Screed can be installed to any thickness in 60mm increments by slurry bonding each increment and with proper compaction.

### FLOOR COVERINGS

Enviro Rapid Screed can be walked on after 8 hours and is ready to receive tiles after 24 hours. Since the final strength has not been achieved after this time, placement of heavy loads such as pallets with tiles and heavy machines should be avoided.

### COVERAGE

A 20kg bag of Enviro Rapid Screed mixed with 80kg of graded aggregate will cover approximately 6.5m<sup>2</sup> per 10mm of thickness.

### OVER COATING

Over coating of Enviro Plug is possible once the applicator has determined if leaking has ceased.

Enviro Plug can be over coated with the EnviroSystems range of primers by following instructions on the prospective Product Data Sheets.

## Product Data

### PHYSICAL PROPERTIES

PROPERTY	RESULTS
Bulk Density	Approximately 1kg/L
Fresh Mortar Weight	Approximately 2kg/L
Fresh Mortar Weight	Approximately 3.1kg of powder/m <sup>2</sup> and 10mm
Working Time	60 minutes
Walkability	8 hours
Compressive Strength	32MPa @ 1 day 40MPa @ 3 days 48MPa @ 28 days
Suitable for Floor Heating	Yes

### CLEANING

Enviro Rapid Screed should be removed from all tools and equipment, prior to curing with water.

### WE'RE HERE TO HELP YOU!

It is a good idea to keep a journal of your waterproofing job, whether big or small.

- 📷 Take pictures at all stages of your work, including preparation
- 📷 Record the quantity and description of products used with corresponding batch numbers
- 📷 Record dates and times of when you applied products, from start to finish

Please do not hesitate to contact us for any questions you may have.



## Contact EnviroSystems

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#### HEALTH & SAFETY ADVICE

When using Enviro Rapid Screed always provides adequate ventilation and wear appropriate Personal Protection Equipment (PPE) during use. Avoid contact with skin. Avoid breathing vapours. Wear protective eyewear. If inhalation effects occur, remove to fresh air. If discomfort persists, any breathing difficulties occur or if swallowed, seek medical attention. Refer to Safety Data Sheet for full details.

*NOTE: Safety Data Sheets are available upon request.*

#### KEEP OUT OF REACH OF CHILDREN

#### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use of application and no warranty as to accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

*NOTE: Field service where provided, does not constitute supervisory responsibility. Suggestions made by EnviroSystems either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not EnviroSystems are responsible for carrying out procedures appropriate to a specific application.*

*NOTE: All products manufactured by EnviroSystems comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.*