



**ECO  
SYSTEMS**<sup>TM</sup>

# ECO SCREED RAPID (CONCENTRATE)



## PRODUCT DESCRIPTION

### ECO SYSTEMS<sup>TM</sup> ECO SCREED RAPID

**CONCENTRATE** is a rapid setting screed binder for mixing with graded screed sand aggregates 0 - 0.8mm Formulated for thin and thick bed installations, bonded and unbonded installations that require a fast setting screed with high strength. Recommended for internal and external applications. Suitable for a variety of domestic and commercial applications including levelling coats, mortar beds, sloped shower beds or fast set repair of masonry surfaces, prior to the installation of AquaBlok waterproofing membranes, tiles, natural stone, carpet, wood, vinyl and parquet flooring.

## RECOMMENDED FOR

- Concrete slabs
- Compressed fibre cement sheeting
- Internal and external applications
- Use under ceramic tiles and natural stone
- Use with AQUA BLOK<sup>TM</sup> waterproofing membranes
- Use in residential and commercial applications

## PRODUCT FEATURES

- Suitable for thin and thick bed applications
- Ready for foot traffic after 3 -4 hours
- Ready for self levelling underlayment after 4 hours
- Installation of ceramic tiles possible after 6-8 hours
- Improve adhesion, compressive strength, flexural strength and thermal shock resistance by adding PROLASTIC / ADMIX A in the gauging water
- Working time, approx. 45 mins @23C

## SURFACE PREPARATION

### General:

Surfaces must be structurally sound, clean, dry and free from grease, oil, dirt and other contaminants

that would prevent a good bond. Ambient temperature, surfaces and materials should be maintained at temperatures higher than 10° C. The installation must conform to the relevant Australian Standards, local and national Building Codes.

### Concrete Slabs:

Concrete slabs must be fully cured and must accept water penetration. Test by sprinkling water on various areas of the substrate. If water penetrates, then a good bond can be achieved; if water beads, surface contaminants are present, and loss of adhesion may occur. Contaminants should be mechanically removed before installation. Concrete must be free of efflorescence and not subject to hydrostatic pressure. Concrete slabs should have a broomed or brushed finish to enhance the bond. Smooth concrete slabs must be roughened to ensure a good bond.

## PRIMING – POROUS CONCRETE FLOORS

### (Bonded Screed)

#### Slurry Bond Coat

Concrete slabs must be primed with Eco Prime WB prior to the application of the slurry bond coat. Mix 1 part PROLASTIC / ADMIX A with 1 part clean water and 2 parts of **ECO SCREED RAPID CONCENTRATE** by volume and mix thoroughly to produce a brushable consistency, apply this mixture to the primed masonry substrate using a stiff bristle broom or brush ensuring mix is worked well into the substrate. Apply subsequent topping while the slurry bond coat is still wet and tacky.

PROLASTIC / Admix A	WATER	CONCENTRATE
1 Part	1 Part	2 Parts

## UNBONDED SCREED

Lay two sheets of polyethylene on the substrate to act as a slip prior to placing the screed mix. Reinforce screed mix as required or specified.

## MIXING

20kg bag of **ECO SYSTEMS<sup>TM</sup> ECO SCREED CONCENTRATE** must be mixed with 60-100kg of graded screed sand aggregates 0 -0.8mm and 9.2 – 11.2litres of clean, cool water and mixed to a screed mortar consistency. Mixing must be performed by screed mixer or force mixer to produce a homogeneous mix, adjust mix to a stiff mortar consistency. The addition of Prolastic / Admix A, diluted 1part admixture with 3 parts water in the gauging water will improve adhesion, compressive strength and shock resistance of the screed. The mixed screed must be used immediately and should not be allowed to stand. Working time is approximately 45 minutes, dependent on substrate porosity, ambient temperature and relative humidity. Allow longer in adverse weather conditions. Do not add more water, Do not restir screed that has begun to set.

## APPLICATION

After mixing the product place screed onto the prepared substrate and screed to the desired thickness using a straight edge, ensure screed is smooth and well compacted with no voids. If required finish with a wooden or polyurethane float. Screed thickness from 10mm bonded and 30mm – 100mm unbonded in a single application. When installing mortar beds requiring reinforcing, ensure that reinforcing mesh is placed in the centre of mortar bed. Do not cover existing movement joints.

## WORKING TIME

45 minutes at 23°C and 60% relative humidity. This is dependent on the density of the substrate ambient temperature and humidity.

## CURING

Screed can accept foot traffic in 3 - 4 hours. For temperatures below 23°C, allow the screed to cure for an extended period of time. Ready for finished floor coverings such as tiles, natural stone, carpet and cold cured coatings after approximately 6 - 8 hours. Always check residual moisture content of

screed prior to installing timber, parquetry and resilient floor coverings that are sensitive to substrate moisture. Drying time is dependent on temperature, relative humidity and screed bed thickness.

## CLEAN UP

Clean tools and equipment with warm water and detergent while the product is still wet.

## COVERAGE & MIXING RATIOS

Coverage is for estimating purposes only. Actual coverage may vary depending on site conditions and installation techniques and thickness.

Screed Rapid : Aggregate	Per 10mm Screed Layer
Mixing Ratio 1 : 4	Approx 3.5kg/m <sup>2</sup>
Mixing Ratio 1 : 5	Approx 3.0kg/m <sup>2</sup>

Technical Properties			
Mix Ratio Screed Rapid : Sand Aggregate	20kg:60kg	20kg:80kg	20kg:100kg
Compressive Strength(28 days)	27Mpa	18Mpa	14Mpa
Flexural Strength	7.8Mpa	4.6Mpa	3.3Mpa

## SHELF LIFE

When **ECO SYSTEMS<sup>TM</sup> ECO SCREED CONCENTRATE** is stored in its original unopened package in a dry area off the ground at a temperature of 23°C and a relative humidity of 60%, it should be usable for approximately 12 months.

## PACK SIZE

Available in 20kg paper bags

## LIMITATIONS

- Do not use **ECO SYSTEMS<sup>TM</sup> ECO SCREED RAPID CONCENTRATE** directly over lightweight concrete, particleboard, hardwood floors, parquet floors or metal.
- Do not mix or apply **ECO SYSTEMS<sup>TM</sup> ECO SCREED RAPID CONCENTRATE** in

temperatures below 10oC

and above 35°C and under hot and windy conditions.

- Do not apply **ECO SYSTEMS<sup>TM</sup> ECO SCREED RAPID CONCENTRATE** over substrates that may subject to shrinkage after the application.
- Do not mix or apply **ECO SYSTEMS<sup>TM</sup> ECO SCREED RAPID CONCENTRATE** on substrates that are moist or subject to rising damp.
- Do not mix or add other cements and chemicals to **ECO SYSTEMS<sup>TM</sup> ECO SCREED RAPID CONCENTRATE**
- Not recommended as a trafficable surface.
- Protect fresh screeds from direct sunlight and wind draughts.
- The final screed strength is dependent on amount of gauging water and ambient conditions.
- Contact CTA Technical Department for further information.

## SAFETY DIRECTIONS

CTA<sup>TM</sup> supports best practice in material handling: Gloves, mask and protective clothing should be worn. For further information refer to product SAFETY DATA SHEET.

## WARRANTY

Construction Technologies Australia warrants its products for a period of twelve (12) years from the date of sale. Visit [www.ctaust.com.au](http://www.ctaust.com.au) to view the full terms and conditions of this warranty.

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