

PRODUCT DATA SHEET

Eco Screed Rapid Concentrate

A RAPID SETTING SCREED BINDER FOR CEMENT BASED SCREEDS & MORTAR BEDS.

DESCRIPTION

Eco Screed Rapid Concentrate is a rapid setting screed binder for mixing with graded sand aggregates. Formulated for rapid setting times for a variety of rapid setting screed applications.

USES

Eco Screed Rapid Concentrate is suitable for rapid drying screeds and mortar beds ready for foot traffic after 3-4 hours & ready for tiling installation after 6-8 hours.

Eco Screed Rapid Concentrate improves compressive strength and flexural strength when compared to typical sand & cement screeds

Eco Screed Rapid Concentrate is suitable for both internal and external use.

CHARACTERISTICS / ADVANTAGES

- Easy to use
- Good open time
- Economical
- Fast setting
- Improves compressive strength
- Improves flexural strength
- Low VOC

PRODUCT INFORMATION

| | |
|---------------------------|---|
| Packaging | 20kg Bags |
| Shelf life | 9 months from date of manufacture. |
| Storage conditions | Store in dry cool conditions out of direct sunlight and avoid humidity. |

TECHNICAL INFORMATION

| Compressive strength | Mix Ratio / Screed Binder : Sand aggregate | 1:3 | 1:4 | 1:5 |
|---|--|---------|---------|--------|
| Compressive Strength 28 days | | 35 Mpa | 25 Mpa | 18 Mpa |
| Flexural strength | | 7.8 Mpa | 4.6 Mpa | 3.3Mpa |

APPLICATION INFORMATION

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Substrates must be properly cured, structurally sound, free from loose or friable particles, clean, dry and free from contaminants such as dust, dirt, oil, grease, curing compounds, laitance or efflorescence.
- Dependant on the substrate condition and contamination to be removed from the surface, perform adequate preparation techniques such as water blasting, scarification, or blast cleaning in order to remove all traces of any materials that could reduce the products adhesion to the substrate.
- Substrate deflection under loads must not exceed L/360 for tiles and L/450 for stone.
- CONCRETE FLOORS:** Early age concrete must be a minimum 10 days old. Concrete shall be left with open surface - steel trowel finishes are generally acceptable if they display the "moderate water absorbed" in the substrate test. Wood float and broom finishes are preferred where possible. All traces of curing compounds, sealers, release agents, coatings, dust, dirt, oil, and any other contaminate that may inhibit the adhesion must be removed prior to tiling. Concrete must accept water and be free from Laitance.
- SHEETED SUBSTRATES:** All boards / underlays must be installed as per manufacturers instructions and specifically designed for tiling.

Priming:

Porous Substrates: Eco Prime WB*

Non Porous Substrates: Eco Prep n Prime*

*refer to primer technical datasheet for additional information.

MIXING

Eco Screed Rapid Concentrate shall be mixed with graded sand aggregate from 0.8mm to 4mm thick. Mix 20kg Eco Screed Rapid concentrate with 60, 80, or 100kg of graded sand with 9.2 - 11.2 Litres of clean cool water. Mix for 3 minutes to a semi dry homogeneous mix and use immediately.

APPLICATION

Bonded Screeds:

Prior to placement of screed mix a slurry bond coat consisting of 1part Eco Screed Rapid with 1 part Eco-Crete admix to 2 Parts water.

Apply the bond coat with a broom or trowel to the substrate to a minimum depth of 2mm. Prior to the bond coat skinng, place and level the screed mix. Level and shape the falls as required.

Minimum depth: 10mm

Maximum depth 100mm

Unbonded Screeds

Lay 2 layers of polyethylene film on the substrate and tape the joins.

Place the mixed screed onto the polyethelene film and reinforce with galvanised wire as per applicable standards.

Level and shape to falls as required.

Minimum depth: 30mm

Maximum depth 100m

CLEANING OF EQUIPMENT

Tools may be clean while the mix is still wet. Mechanical removal is required for dried product.

FURTHER INFORMATION

COVERAGE:

| <u>Screed Rapid : Aggregate</u> | <u>Per 10mm Screed Layer of thickness</u> |
|---------------------------------|---|
| <u>Mixing Ratio: 1:4</u> | <u>Approx 3.5kg/m²</u> |
| <u>Mixing Ratio: 1:5</u> | <u>Approx 3.0kg/m²</u> |

WORKING TIME:

45 Minutes at 23°C & 60% RH.

Working time is dependant of substrate density, ambient temperature, and humidity.

DRYING TIME:

Screeds can accept foot traffic in 3-4 hours @ 23°C.

Covering such as tile and stone can be installed after 6-8 hours @ 23°C.

Sika or Davco levelling or smoothing products / systems may be applied after 12 hours @ 23°C prior to subsequent flooring installation. Moisture testing prior to application of floor coverings is recommended.

Drying times are always dependent on temperature, airflow, relative humidity, and screed thickness. Increased airflow will assist with speed of drying in cooler temperatures.

IMPORTANT CONSIDERATIONS

- Do not use Eco Screed Rapid Concentrate on substrates that may be subject to extended shrinking after application.
- Do not apply Eco Screed Rapid Concentrate to substrates that are subject to rising damp or negative hydrostatic pressure.
- Do not use Eco Screed Rapid Concentrate in submerged applications
- Final performance is dependent of ammount of gauging water and ambient conditions. Sand quality may also impact final performance.
- Product shall be used at temperatures between +5°C & below 35°C.
- Do not mix with other cements or chemicals
- Do not use over lightweight concrete, hardwood floors or metal.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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Product Data Sheet

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