

**asiam**MORTAR  
Deliver Solutions



022 - 021  
Eco-Friendly Building Material  
Minimum 20% Recycled Content

## R-CRETE ECO SCREED

### DESCRIPTION

R-CRETE ECO SCREED is cement-based pre-packed environmentally friendly floor screed consists of Ordinary Portland Cement, Ground Granulated Blast Furnace Slag (GGBFS), graded sand and additives. It is specially formulated to provide excellent strength and crack control, and designed to be used as a floor or deck topping at thickness of 10mm to 40mm.

### USES

R-CRETE ECO SCREED is formulated for both internal and external applications on sound concrete substrates. It is designed to have non-slump properties but yet high workability to allow the mason to form a gradient to avoid trapping of water in estate upgrading or retrofitting applications. R-CRETE ECO SCREED also can be used for repairing of old worn concrete for both industrial and housing areas.

### ADVANTAGE

- Premixed to ensure high consistent quality.
- Convenience in handling.
- Same amount of water is added to achieve consistency in workability.
- Easy mixing and application.
- Excellent compressive and bonding strength.
- Time and cost savings due to quick easy laying.

- Shrinkage compensated.
- For both internal and external uses.
- Cleaning limited to just disposing used paper bag.
- High sulfate resistance due to a lower  $C_3A$  content in blended cement
- Low permeability with the formation of additional calcium silicate hydrate (CSH)
- Mitigate Alkali Silica reaction

### METHOD OF USE

#### Surface Preparation

The surface to be laid should be free from dirt, dust, oil, grease or other contaminants. Any loose material must be removed by either by vacuuming or pressure washing. All concrete substrates must also be sound with adequate strength to assure a good bond.

It is recommended that the level of the existing surface be surveyed to check for excessive deviations which should then be rectified.

#### Mixing

Pour one 40kg bag of R-CRETE ECO SCREED into a mechanical mixer with approximately 6.4 litres of water and mix for about 3 minutes to obtain a homogeneous lump-free mix. Mixing can also be done using an automatic pump/mixer system.

SPECIFICATIONS	
Water Powder Ratio	0.16 (or 6.0 – 7.0 litres of water per 40kg bag)
Compressive Strength	25 N/mm <sup>2</sup> (ASTM C109:2002)
Flexural Strength	> 2 N/mm <sup>2</sup> (ASTM C348:2002)
Shrinkage	No cracks (Continho Ring)
Stiffening Time (1.0 N/mm <sup>2</sup> ) (2.0 N/mm <sup>2</sup> )	300 mins 380 mins (BS EN 1015:1999A)
Workability Time	30 mins
Flow	80 – 120% (ASTM C1437:2001)
Volume Change	No more than -1% (ASTM C827:2001)
Water Retentivity	> 90% (BS 4551:1998)

## CURING

R-CRETE ECO SCREED should be allowed to cure for 4 – 6 hours before any tiling works is carried out.

## CONSUMPTION

A 40kg bag yields approximately 22 Litres of R-CRETE ECO SCREED mix.

## PACKING

R-CRETE ECO SCREED is supplied in 40kg bags at 50 bags per pallet.

## SHELF LIFE

If stored in a cool and dry place, the shelf life of R-CRETE ECO SCREED is approximately 12 months in unopened bags.

## Placing

Spread the mix in one coat from 10 - 40mm either by pouring or pumping. To ensure uniform and level surface, the material must be continuously spread.

R-CRETE ECO SCREED should be protected against direct sunlight and drying winds after placing. If application of R-CRETE ECO SCREED is under direct sunlight, use FLEXICURE 102 for curing.

## HANDLING

R-CRETE ECO SCREED is non-hazardous. Wear a filter mask to avoid inhaling dust and protective clothing and gloves while working. Remove splashes from skin with water and in case of eye contact, wash copiously with water. If irritation persists, seek immediate medical attention.

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