

# TECHNICAL DATA

Revision Date 02/2008

# SUPER SCREED

## Product Codes

AF06, Packaging listed overleaf

## Description

Super Screed is a pre-packaged screeding mix based on Portland and microsilica cements, an acrylic copolymer resin, specially graded basalt aggregates plus a blend of synergistic admixtures. Super Screed is ready to use on site and when mixed with water produces a trowelable floor screed which is applied to new or existing concrete. The mix design which is polymer reinforced and enhanced with microsilica is readily mixed to produce a screeding consistency that is easily applied and finished. The cured material develops high early compressive and mechanical strengths producing a hard wearing, impact resistant floor.

- Uses include:**
- Topping of concrete and cementitious floors, paths and roadways.
  - Cover to concrete in car-parks, forecourts, garages and petrol stations.
  - Loading bays and trucking aisles in warehouses and factories.
  - Areas of mechanical or chemical attack, engineering and assembly workshops food factories, farms, dairies and breweries.

## Specification Outline

Screeding and concrete cover shall be carried out using Super Screed as manufactured by Tecroc Products Ltd. The product must be stored, handled and used strictly in accordance with the manufacturer's instructions.

## Quality Assurance

Tecroc Products Ltd is a firm of Assessed Capability. The Company's quality system conforms to BS EN ISO 9001:2000 and is assessed by SGS Ltd Systems and Services Certification.

## Typical Screed Properties @ 20°C

### Compressive Strength

#### Water addition

(2.0 litres per 25kg of Super Screed)

| 1 Day               | 3 Days              | 7 Days              | 14 days             | 28 days             |
|---------------------|---------------------|---------------------|---------------------|---------------------|
| 28N/mm <sup>2</sup> | 45N/mm <sup>2</sup> | 60N/mm <sup>2</sup> | 70N/mm <sup>2</sup> | 75N/mm <sup>2</sup> |

**Flexural strength @ 28 days** 7N/mm<sup>2</sup>

**Consistency** Slightly stiff screed

**Consistency life slightly agitated** 60 minutes

**Setting times to BS 4550**  
Initial 3 hours  
Final 5 hours

**Volume stability To ASTM C827** Non shrink

**Impact resistance to BRE Screed Test** 0.14

**Abrasion resistance to BCA Abrasion Test** 0.23

**Density** 2360kg/m<sup>3</sup>

## Standards

Super Screed has been tested in accordance with the appropriate parts of the following standards: BS1881, ASTM C230, ASTM C827, BRE Impact Resistance Test, BCA Abrasion Test

## Instructions For Use

### Preparation

Clean any oily or other residues from the surface. Remove any loose or defective material from the surface to produce a good mechanical key. Edge sections should be cut to a "toe in" of 20mm. If necessary, form shutters at the sides of the concrete application area.

### Priming

Mix the Super Screed powder with water at a dosage of 1.9-2.25 litres of water per 25kg bag Super Screed. Place the mixed material onto the concrete and form a contact coat using a stiff bristle brush to work the mixture well into the substrate. Alternatively TECROC Bondcoat UF may be used and is particularly useful on ramped or inclined surfaces.



Grouts



Structural Support Mortars



Concrete Repair Products



Construction Adhesives



Resin Et Cementitious Anchors



Highway Products



Coatings



Waterproofing



Ground Engineering

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**Instructions For Use****Mixing**

Mix the Super Screed powder with water at dosage of 1.9-2.25 litres of water per 25kg bag of Super Screed. Pour the required quantity of water into a suitable mixing vessel. Slowly add the powder to the water whilst continuously mixing. Suitable mixers include a slow speed high torque drill with a Mortar Stirrer or for large jobs a forced action mixer such as Creteangle or Mixal should be used. Continue mixing until all the powder has been wetted out and an even mortar screeding mix has been produced.

**Placing**

If Boncoat UF has been used as the priming coat then place the Super Screed whilst the primer is still wet. If not, then keep the concrete wet for several hours before the placement of the screed. Remove any standing water. Place the mixed screed onto the wet contact coat to provide a minimum 20mm depth of screed then rough finish with an aluminium beam. Avoid the entrapment of air and ensure complete contact of the screed with the concrete. Use a steel float to close the surface. For a textured finish use a suitable roller or stiff broom.

Super Screed may be placed at temperatures between 5°C and 35°C. For temperatures outside this range contact the Technical Service Department.

**Curing**

Placed screed should be cured in accordance with good concrete practice including water spray, tightly placed plastic sheeting and the spray applied curing membrane Polycure covered @ 10m<sup>2</sup> per litre.

**Precautions****Health and Safety**

Super Screed mixes are alkaline when mixed with water and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. Full health and safety data are given in Product Safety Data Sheet.

**Fire**

Super Screed is non-flammable

**Yield**

Super Screed is packed in 25kg bags yielding approximately 11litres of mixed material.

**Storage And Shelf Life**

Super Screed will have a shelf life of 6 months when kept in dry conditions at a temperature of 5°C to 45°C. Storage at higher temperatures or high humidity may reduce the shelf life.

**Packaging and Ordering**

Super Screed is supplied in:

25kg bags Product Code AF06

Bondcoat UF is supplied in:

0.8kg pack Product Code TM11

4kg pack Product Code TM12

Polycure is supplied in:

5kg polybottles Product Code AF03

For further information and sales please contact your local Tecroc Products office as listed below.



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Tecroc Products Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Tecroc Products Ltd Terms and Conditions of Sale, copies of which are forwarded on invoice and are available on request. Tecroc Products Ltd endeavours to ensure that the above data and any further advice is correct, however, it cannot accept any direct or indirect liability for the use of its products as such usage is beyond its control.

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