

# TECHNICAL DATA

Revision Date 01/2008

## LA FLOOR SCREED

### Product code

TF 50, Packaging listed overleaf

### Description

LA Floor Screed is a blend of special Portland cements, ground granulated blast furnace slag plus high quality continuously graded non ASR reactive aggregates. The product, when mixed with water, produces a homogenous screeding mix which will not segregate or bleed and has a dual shrinkage compensating system giving volume stability in both the plastic and hardened states. The mix has good flow characteristics and will not rapidly stiffen. LA Floor Screed may be used for all general flooring over-screeding, flooring repairs and wherever a flowing concrete is required. The product is easily mixed and placed by regular screeding methods or may be pumped into large prepared bays.

The use of the Portland Blast Furnace type of cement gives a mix design with less than 3kg of equivalent sodium oxide per m<sup>3</sup> thus minimising the risk of alkali aggregate reaction even in the flooring substrate.

LA Floor Screed is supplied in powder form only requiring the addition of water on site. The screed may be placed in thicknesses of nominal 10mm to 60mm. For thicknesses of 10mm to 15mm the use of a priming/bonding layer of Bondcoat UF is recommended. For thicknesses greater than 15mm the use of a priming/bonding layer of either Bondcoat UF or Acrylic Latex is recommended. separate Product Technical Data Sheets are available for these products.

**Uses include:** Floor screeds placed to receive a full range of traffic conditions.  
Overlying of badly worn concrete floor.  
Light to medium engineering workshop floors.  
Underlying of additional floor finishes.

### Specification Outline

Floor screeding, repairs and replacement shall be carried out using LA Floor 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.

### Standards

LA Floor Screed has been tested to the relevant parts of the following standards:  
BS 1881 BS 6319

### Typical Properties @ 20°C

#### Consistency

Water Content %	Ltr/25kg Bag	Consistency
12	3.00	"Flowing Screed"

#### Consistency Life

Water Content %	Ltr/25kg Bag	Screed Slightly Agitated
12	3.00	30 Minutes

#### Set times (BS 4550)

Water content %	Ltr/25kg bag	Initial Set	Final Set
12	3.00	5 Hours	8 Hours

#### Compressive Strength

Water Content %	N/mm <sup>2</sup> @ 1Day	N/mm <sup>2</sup> @ 3 Days	N/mm <sup>2</sup> @ 7 Days	N/mm <sup>2</sup> @ 28 Days
12	20	33.0	55.0	65.0

**Density @ Water Content 12%** 2250kg/m<sup>3</sup>

**Shrinkage** LA Floor Screed is shrinkage compensated  
**Bond Strength** 45N/mm<sub>2</sub> (slant shear BS6319)  
Bonded with Bondcoat UF

**Compressive Modulus** 32kN/mm<sup>2</sup>

**Coefficient of Thermal Expansion** 10-12x10<sup>-6</sup> / °C

#### Cure Rate

Foot traffic 1 day

Light vehicular traffic 3 days

Medium to heavy vehicular traffic 7 to 28 days



Grouts



Structural Support Mortars



Concrete Repair Products



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### Instructions For Use

#### Preparation

Surfaces to be repaired should be roughened to produce a good mechanical key. Ensure all contact surfaces are clean, free of contamination. Concrete surfaces should be soaked then blown free of standing water prior to screeding.

New concrete substrates should be at least 14 days old before screeding with LA Floor Screed. Existing floors with large cracks or holes may be pre-treated with LA Floor Screed at a reduced water content to fill the cracks or holes.

For large floor areas or bays correct thickness screeding bars should be fixed in place.

#### Mixing

The recommended water addition is 3 litres (12%) per 25 Kg bag. Place the required quantity of water in a suitable forced action mixer such as a Creteangle. Slowly add the powder to the water whilst continuously mixing. After all the powder has been added mix for a further minute to ensure a smooth lump free consistency is achieved. For small areas suitable mixers include a slow speed high torque drill with a Mortar Stirrer. After all the powder has been added mix for a further 1 minute. Mixing by hand is not recommended.

#### Placing

Ensure that sufficient LA Floor Screed has been mixed and available such that the screeding operation can be carried out continuously. Place the mixed LA Floor Screed inside the screeding bars until the thickness of the placed material is that required for the job. Use a spiked roller to create a level surface and assist with air release

#### Curing

In moderate ambient conditions a light water spray may be used once the LA Floor Screed has stiffened sufficiently not to distort. In more severe drying conditions the placed screed should be cured with Polycure sprayed at a rate of 10m<sup>2</sup> per litre. In adverse ambient conditions of rapid drying such as high temperatures and drying winds apply a second coat of Polycure after the first coat has dried. In cold ambient conditions protect recently placed screeds from freezing.

### Precautions

#### Health and Safety

LA Floor Screed is 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

LA Floor Screed is non-flammable

#### Yield

LA Floor Screed is packed in 25kg bags. The yield obtained is approximately 12.5 litres of mixed material.

#### Storage And Shelf Life

LA Floor 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

LA Floor Screed is supplied in:  
25kg bag                      Product Code TF 50

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

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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