

# TECHNICAL DATA

Revision Date 03/2009

## TECROFLEX FLEXIBLE CEMENTITIOUS WATERPROOFING COMPOUND

### Product Codes

TM 21 and TM 59 Packaging listed overleaf

### Description

Tecroflex is a flexible cementitious waterproofing compound. The two-component product is supplied as a blended liquid acrylic copolymer containing dispersing and waterproofing agents plus a second component of specially selected cements and graded fillers.

The two components are mixed for application to produce a highly flexible waterproof membrane. The coating will bridge fine cracks and accept substrate movements. Tecroflex has excellent adhesion to most construction substrate materials. The coating in service is impermeable to water but will allow the transmission of water vapour preventing pressure build up from the membrane. Tecroflex applications are suitable for interior and exterior use.

The product is designed to be hand applied using brush, trowel, or spray applied for large open areas. These applications may be made on vertical and horizontal surfaces and on to 24 hour-old concrete

- Uses include:**
- Basement tanking
  - Pile tops and caps
  - Underground car parks
  - Lift Shafts
  - Bund walls
  - Dock works
  - Protective coatings for concrete, blockwork and masonry

### Specification Outline

Waterproofing and concrete protection shall be carried out using Tecroflex Cementitious Flexible Waterproofing Compound 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 Properties At 20°C

#### Liquid Component

Solids content 57%  
Viscosity 170mPa.s  
Density 1.04g/cm<sup>3</sup>

#### Powder Component

Bulk Density 1.5kg/litre  
Maximum particle size Less than 1mm

#### Mixed Product

Consistency To be brush, trowel or spray applied.  
Working time 60 minutes  
Application temperature 5°C to 30°C  
Number of coats Minimum of two

#### Cured membrane

Adhesion to substrate Up to 2.5N/mm<sup>2</sup> depending on substrate  
Tensile Strength 6N/mm<sup>2</sup>  
Crack bridging 0.5mm to 1mm (in 2mm thick membrane)  
Elongation at break >110%  
Water resistance Resists 15 bar positive side pressure  
(to be confirmed) Resists 3 bar negative side pressure

### Instructions For Use

#### Guide For Preparation

- All surfaces must be thoroughly cleaned and free from laitance, loose material or dust, oily deposits or any general contamination.
- All non structural cracks with a crack width greater than 1mm should be filled. (the use of Skim Coat Plus is recommended)
- Brick or other pointing should be made flush. Any loose pointing should be raked out and replaced finishing flush.
- All renders, tiles or surface coatings should be removed back to the actual structure.
- Any loose or friable concrete, brickwork or blockwork should be cut out and the substrate suitably repaired finishing flush. Any previously repaired areas should be inspected for condition at time of coating.
- New concrete should be left with a smooth finish. The new concrete may be coated within 24 hours of placing.
- Leaking cracks or construction joints should be sealed prior to coating using WEBAC PU Waterproofing Injection Systems. (site advice will be gladly given)
- All internal angles should be filled at 45° fillet. The use of TECROC Aquaplug is recommended. (Site advice will be gladly given)



Grouts



Structural Support Mortars



Concrete Repair Products



Construction Adhesives



Resin Et Cementitious Anchors



Highway Products



Coatings



Waterproofing



Ground Engineering

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# TECROFLEX

## FLEXIBLE CEMENTITIOUS WATERPROOFING COMPOUND

### Instructions For Use

#### Mixing

Tecroflex is supplied as a bag of blended powder (2.5 parts by weight) plus a poly-bottle of special acrylic gauging polymer (1 part by weight). Pour the gauging polymer into a suitable mixing vessel. Slowly add the powder whilst continuously mixing. Mechanical mixing should be used to achieve a homogeneous consistency. Suitable mixers include a slow speed high torque drill with a Mortar Stirrer or a Beba type double scroll mixer. Mixing should be continued for two minutes after all the powder has been added.

Mix occasionally during application. A small amount of water, 3% of mix, may be added at time of mixing to aid workability. Only mix the amount that can be applied within 10 to 60 minutes.

Smaller quantity mixes may be made using 3 parts by volume of the powder component to 2 parts by volume of the gauging polymer.

#### Application

Tecroflex must be applied in two coats, each of 1mm thickness. The coverage achieved should be 1.8kg of Tecroflex per square metre. The second coat should be applied at right angles to the first to ensure even coverage

Apply the first coat of mixed material to the dampened work surface using a medium stiffness brush roller or trowel. Do not "paint out" but apply in a 1mm thick coat. Before applying the second coat the first coat should be touch dry.

- Particular attention must be given to expansion joints and any live cracks.
- Do not remix with additional water
- Total application should not exceed 4mm to avoid possibility of splitting or cracking
- Do not apply to bitumen or asphalt surfaces.

All tools and equipment should be washed with water.

Cured Tecroflex may only be removed mechanically. Tecroflex may be applied at temperatures between 5°C and 35°C. For application at temperatures outside this range contact the Technical Service Department.

**New Expansion Joints:** Tecroflex should be taken well into rebates before expansion media are applied.

**Old Expansion Joints:** Joints should be inspected and if necessary, repaired. Place debonding tape over the sealant. Apply one coat of Tecroflex over the joint and continue to 100mm on either side of the joint. Whilst Tecroflex is wet, place reinforcement by stippling in glass fibre mat, 30g per m<sup>2</sup>, or plasterers polyurethane scrim. Allow to dry. Apply second coat in the normal manner.

**Live Cracks:** Treat as old expansion joints.

#### Curing

Under moderate climatic conditions no special curing technique is necessary. Newly applied material should be protected from severe drying conditions or rain. Resistance to rain will be achieved in 3 to 4 hours. For full waterproofing properties Tecroflex must have completely dried taking some 2 to 3 days

#### Precautions

##### Health and Safety

Tecroflex Waterproofing Compound, when mixed, is alkaline 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 details are given in the Product Safety Data Sheet.

##### Fire

Tecroflex is non-flammable.

##### Yield

Tecroflex packed in 35kg combined units -  
From each unit the coverage is approximately 8 to 10m<sup>2</sup> in two coats.

Tecroflex packed in 17.5kg combined units -  
From each unit the coverage is approximately 4 to 5m<sup>2</sup> in two coats.

#### Storage And Shelf Life

Tecroflex Waterproofing Compound should be kept in dry conditions at a temperature of 10°C to 30°C.

Storage life: Tecroflex Waterproofing Compound  
Gauging Polymer 6 months  
Powder Component 6 months

Storage at higher temperatures or high humidity may reduce the shelf life.

#### Packaging And Ordering

Tecroflex Waterproofing Compound is supplied in:-

Combined Unit	35kg	Product Code TM 21
Combined Unit	17.5kg	Product Code TM 59

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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