Triton Systems

Cementitious Systems

Type A Barrier Waterproofing – BS: 8102 (2009)

Triton Contact Details:

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BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 14/5129

CONTENTS:

Introduction and general guidelines for use

1. Description

Defined in BS: 8102 (2009), Type A waterproofing systems comprise six categories of 'barrier' system designed to be applied to the concrete or masonry structure.

Cementitious coatings and cementitious crystallisation active systems, such as Triton's TT Super, are Type A categories.

By reacting with free lime in concrete, cementitious crystallisation active systems block cracks and capillaries. They provide in depth waterproofing of concrete and construction joints. The chemicals remain active and will potentially self-seal leaks. In construction joints, they assist repair of local defects. Applied externally, they may also protect against aggressive soils and groundwater.

Using TT Super to waterproof construction joints

Product Data Sheet

TT55ME FLEXIBLE WATERPROOFING SLURRY COATING

- WATERPROOF FLEXIBLE COATING
- ENHANCED ADHESION
- SUITABLE FOR CONCRETE OR MASONRY STRUCTURES
- SUITABLE FOR VERTICAL AND HORIZONTAL SURFACES
- SUITABLE FOR BOTH POSITIVE & NEGATIVE SIDE WATERPROOFING
- SUITABLE FOR: RETAINING WALLS, BASEMENTS, CAR PARKS, LIFT PITS, BUND LININGS, BALCONIES & TERRACES..

Description and Use

Triton TT55ME is a two component polymer modified cement based, flexible, protective and waterproof membrane coating. The polymer emulsion additive imparts high adhesion and flexibility along with its own high level of water resistance. **TT55ME** is suitable for the internal and external waterproofing of concrete, sound brickwork and cement based elements of water retaining and water resisting structures such as basements, retaining walls, lift pits, swimming pools, construction joints, underpinning joints, balcony decks, bund linings or terraces etc.

Preparation

- All surfaces to be coated with **Triton TT55ME** must be free of all loose materials, dust, dirt, plaster, bitumen, oil, paint, etc. and of a sound nature, to maximize adhesion to the original structure. This is best achieved by sand/shot blasting, scabbling, grinding or bush hammering.
- Once the surface has been prepared it should be pressure washed to remove any remaining dust. The substrate can be damp but must be free of pooling or surface water. Running water should be stopped using Triton Quick Set (see separate data sheet).
- Pre-wet the substrate, if dry, before application. Allow the water to soak in before continuing.
- For application to concrete floors, any floor screed must be removed, back to the original slab. The slab must be sound, free from cracks or defects and capable of withstanding the tensile load that may be induced by water pressure causing up-thrust. If there is any doubt, consult a structural engineer and install a new reinforced concrete slab.

Application

- BRICKWORK: After preparation, apply a 10mm thick backing coat of 3:1 washed sharp sand, incorporating Sulphate resisting Portland cement and **Triton TRIMIX 1** Render Additive in the gauging water. Where hydrostatic pressure is expected, substitute **Triton SBR** for the **TRIMIX 1**. Apply the **TT55ME** mix when the render has set but is still ‘green’ and damp. Finish with a render coat if required.
- CONCRETE, CONCRETE BLOCKWORK: Prepare the substrate and pre-wet as for brick work above. Cut chases into joints and cracks and fill with **FILLET SEAL** as illustrated, or form fillets at the surface. Directly apply the **TT55ME** in two coats. Protect with screed or render if an exposed wearing surface is required.
- COVERAGE: **TT55ME** can be applied using trowel, brush, roller or by spray. Ensure that an even coat is applied and worked well into the texture of the substrate. Apply at a maximum rate of 4kg/sqm or 2mm thick in one application. Apply two coats at a maximum total rate of 6kg/sqm.

- DETAILING: Lap coats of **TT55ME** by 225mm beyond corner fillets or chases, vertically or horizontally. Reinforce the **TT55ME**over cracks using Glassfibre reinforced mesh which is embedded in the still wet initial coat. Overcoat with a further two full coats.
- **TT55ME** is suitable for use in areas which may be liable to deformation or cracking up to a maximum crack width of 0.5mm.

Mixing

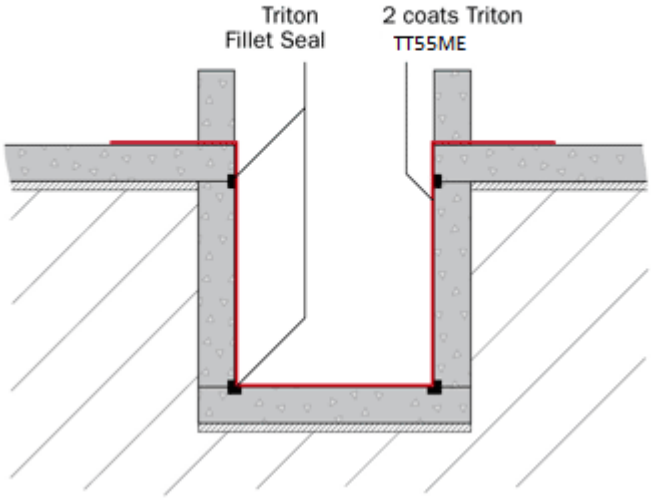
- Place 25kg of **Triton TT55** into a clean container and add a 10kg pack of TTME. Mix thoroughly using a mechanical whisk for minimum 5 minutes. Ensure that the TT55 has fully dispersed and that the mix is smooth and lump free.

  Re-stir as necessary to maintain workability, do not add water or more **TTME.** Use within 1 hour of initial mixing.

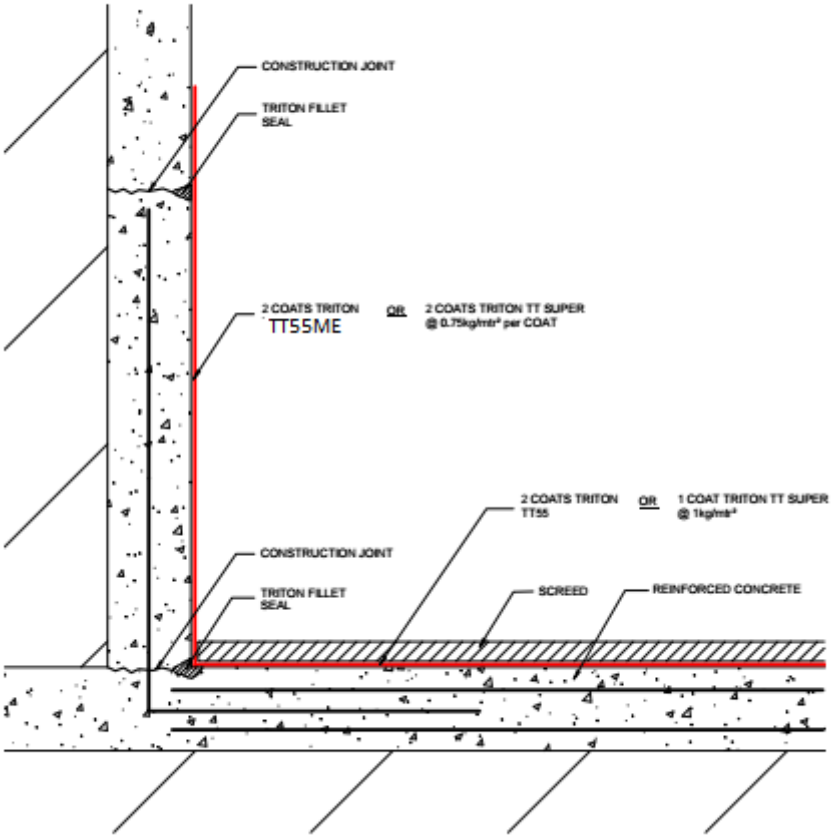
Technical Data

Mixed Density	1800 kg/M3
Open Time / Working Time	25-30 minutes at 20°C
Minimum application temperature	+5°C
Maximum application temperature	+30°C
Number of coats required	Two
Compressive Strength	Minimum 30N/MM at 28 days
Adhesion	2-3N/MM
Colour	Grey

WATERPROOFING CONSTRUCTION JOINT



New or Existing Concrete Construction



Storage and Handling

- Avoid breathing dust.
- Wear gloves and eye protection.
- Wash hands and exposed skin after use.
- Must be stored in dry frost-free conditions.
- If bags or tubs are stored correctly and unopened they will have shelf life for 12 months.
- Pack size 35kg - comprising 25kg **TT55 powder** and 10kg **ME.**

Curing

- During cure, suitable protection must be given to the treated areas. Cover with polythene sheeting or damp hessian if it is likely that the coating will dry out before full cure is achieved.
- Protect from direct sunlight, strong wind, rain and water splashes, until fully hardened.
- NOTE: During the initial stages of curing, condensation may form on the surface of the **TT55ME** and appear as water droplets. This 'sweating' is caused by atmospheric conditions and is not a sign of failure.

Consumption

- Two coat application – Maximum of 6kg/m² (3kg/m² per coat)
- Maximum thickness of layer 5mm.

Specification

Conforms to Type A Barrier Protection in accordance with BS8102: 2009, Grades 1, 2 & 3.

NBS: Clause J10 110 Cement mortar tanking / damp proofing

Related products

- Triton Quick Set – Rapid setting water plugging compound.
- Triton Fillet Seal – Special mortar mix for filling joints, holes etc. and for forming wall to floor junctions
- TT Super- Crystallizing, cement based concrete coating.

Health & Safety

For full information consult the relevant Material Safety Data Sheet.

*For chemical resistances please contact your Triton representative.

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Ref: Triton TT55ME 06/16

Product Data Sheet

Triton TT55 Tanking Slurry

Description and Use

Triton TT55 is a single component polymer modified cement based protective and waterproof slurry coating. When mixed and applied correctly it forms a highly effective damp proof membrane that can be applied to sound brickwork, concrete, concrete blockwork or any cementitious substrate.

Preparation

- All surfaces to be coated with Triton TT55 must be free of all loose materials, dust, dirt, plaster, bitumen, oil, paint, etc. and of a sound nature, to maximize adhesion to the original structure. This is best achieved by sand/shot blasting, scabbling or bush hammering.
- Once the surface has been prepared it should be pressure washed to remove any remaining dust. The substrate should be free of pooling or surface water. Running water should be stopped using Triton Quick Set (see separate data sheet).
- Pre-wet the substrate, if dry, before application. Allow the water to soak in before continuing.
- For application to floors, the floor screed must be removed, down to the original slab. The slab must sound and free from cracks.

Application

- When applying to Masonry walls, apply a 10mm backing render coat using 3:1, washed sharp sand, sulphate resisting Portland cement and Triton TRIMIX 1 Render Additive in the gauging water.
- In areas of high hydrostatic pressure, the surface should be prepared as above, but the first render coat should be mixed using Triton BONDING AGENT diluted with the gauging water (do not use TRIMIX 1 in this application).
- Apply the Triton TT55 when the render has set but is still 'green' and damp. Pre-wet the substrate if necessary, as described above.
- Triton TT55 can be applied using trowel, brush or spraying equipment, ensure that an even coat is applied and that all crevices and irregularities are filled. Apply at a maximum rate of 4kg/sqm or 2mm thick in one application. Apply two or three coats at a maximum total rate of 6kg/sqm.
- When coating walls, particular attention is needed at the wall/floor junction.
- Coat walls and lap (approximately 225mm) Triton TT55 on to the floor, form a fillet at the wall to floor junction using Triton Fillet Seal.
- Coat floor with Triton TT55 and overlap up wall (approximately 225mm), encapsulating the fillet seal in the process. TritonTT55 is not a wearing finish for floors and should be screeded before it has fully cured.
- Once Triton TT55 has gone green (started to set) the top render coat can be applied if required using 4:1, washed sharp sand, Ordinary Portland Cement or suitable renovating plaster.
- The finish coat should be a porous skim plaster, applied when the cement render coats are fully cured, bonding or skimming plaster should not be applied directly to the Triton TT55 layer.
- Once replastering is complete and dry, trade matt emulsion can be applied (NO WALLPAPERS OR OIL BASED PAINTS.

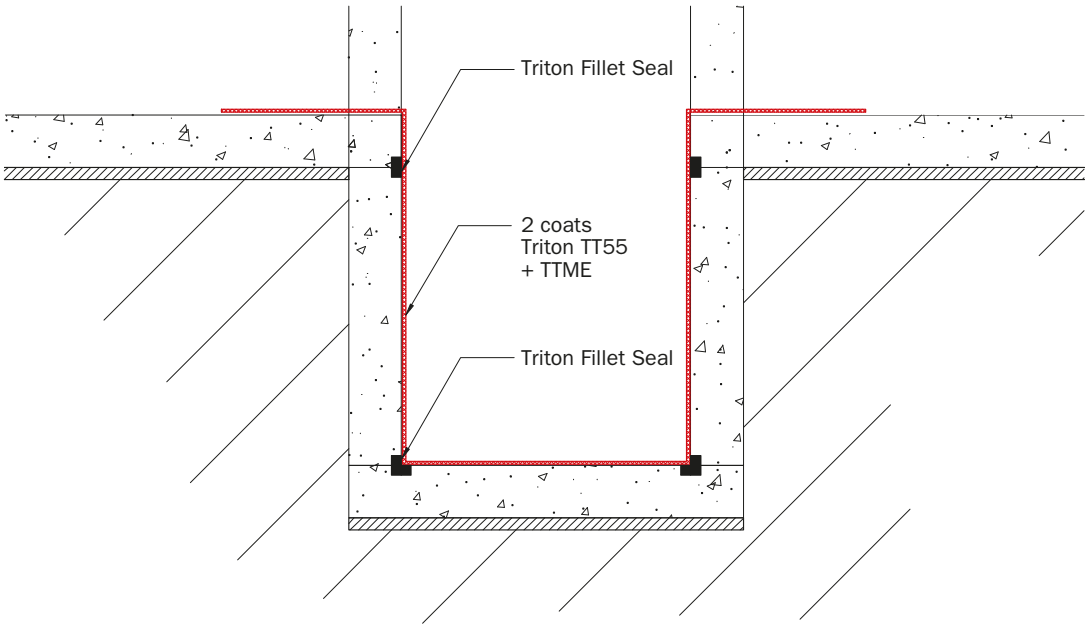
Mixing

- Place 25kg Triton TT55 into a clean container. Add 5.5-6 litres of clean water or gauging solution* and stir using a mechanical whisk for approximately 5 minutes. Ensure that the TT55 has fully dispersed and that the mix is smooth and lump free.
- * Gauging Solution – 4 parts clean water: 1 Part Triton SBR.
- Re-stir as necessary to maintain workability, do not add additional water or gauging solution. Use within 1 hour of mixing.

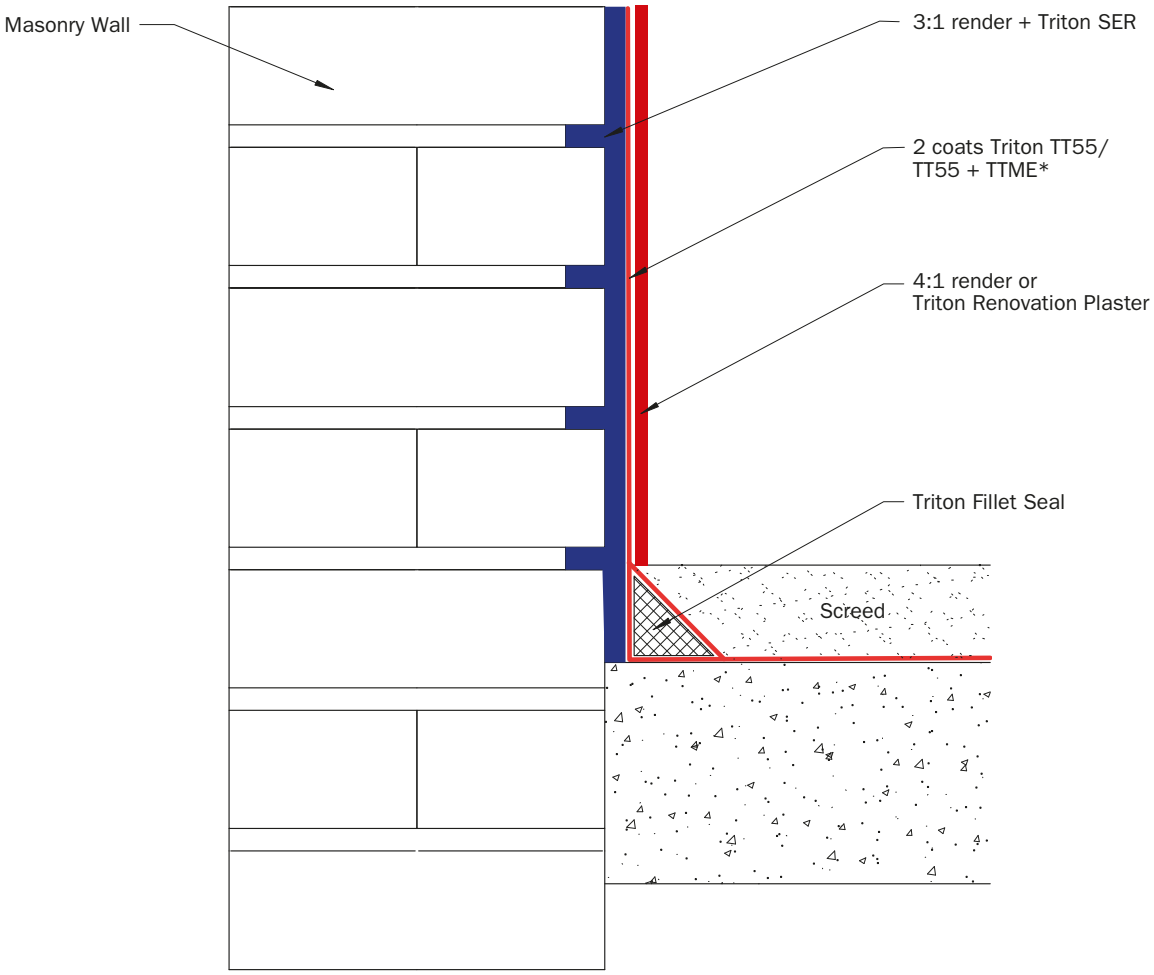
Technical Data

Mixed Density	2000 Kg/M^2
Open Time / Working Time	25-30 minutes at 20°C
Minimum application temperature	+5°C
Maximum application temperature	+30°C
Number of coats required	Two/Three
Compressive Strength	Minimum 30N/MM at 28 days
Adhesion	2-3N/MM
Colour	Grey

WATERPROOFING LIFT PIT



TRITON TT55 TO MASONRY WALLS + WALL/FLOOR DETAIL



PLEASE NOTE: For non-structural slabs, please consult Triton Technical Department.

* Where movement or vibration may be anticipated.

Storage and Handling

- Avoid breathing dust.
- Wear gloves and eye protection.
- Wash hands and exposed skin after use.
- Must be stored in dry frost-free conditions.
- If bags are stored correctly and unopened they will have a shelf life for 12 months.
- Packed in 25kg bags.

Curing

- During cure, suitable protection must be given to the treated areas. Cover with polythene sheeting or damp hessian if it is likely that the coating will dry out before full cure is achieved.
- Protect from direct sunlight, strong wind, rain and water splashes, until fully hardened.
- NOTE: During the initial stages of curing, condensation may form on the surface of the TT55 and appear as water droplets. This 'sweating' is caused by atmospheric conditions and is not a sign of failure.

Consumption

- Two coat application – 6kg/m² (3kg/m² per coat)
- Maximum thickness of layer 5mm.

Specification

- Conforms to Type A Barrier Protection in Accordance with BS8102 (2009) Grades 1, 2 & 3.
- NBS: Clause J10 110 Cement mortar tanking / damp proofing

Related products

- Triton Quick Set – Rapid setting water plugging compound.
- Triton Fillet Seal – Special mortar mix for filling joints, holes etc. and for forming wall to floor junctions.
- TTME – Polymer admix which increases the flexibility and elasticity of the TT 55.
- TT Super – Crystallizing, cement based concrete coating.

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Product Data Sheet

Triton TT SUPER
Crystalline Waterproofing of Concrete.

Introduction.

Triton TT SUPER is applied to the surface of concrete or concrete blinding to provide in-depth waterproof protection by blocking the movement of moisture through capillaries and hairline cracks. It consists of Portland cement, specially treated quartz sand and a compound of active chemicals. **Triton TT SUPER** is supplied in powder form in 25kg bags or tubs and needs only to be mixed with water prior to application as a slurry to fully cured or existing concrete.

TT Super penetrates deeply into the substrate, leaving no physical membrane behind, this means that it is unaffected by loads imposed by the rest of the build above, layers are placed concrete on concrete thus eliminating the risk of a slip plane or un-bonded separation. This feature makes TT Super of particular use when sealing pile caps, ring beams, kicker joints or abutments to retaining walls. TT Super only works with concrete, for other substrates a slurry coating such as TT-55 should be used.

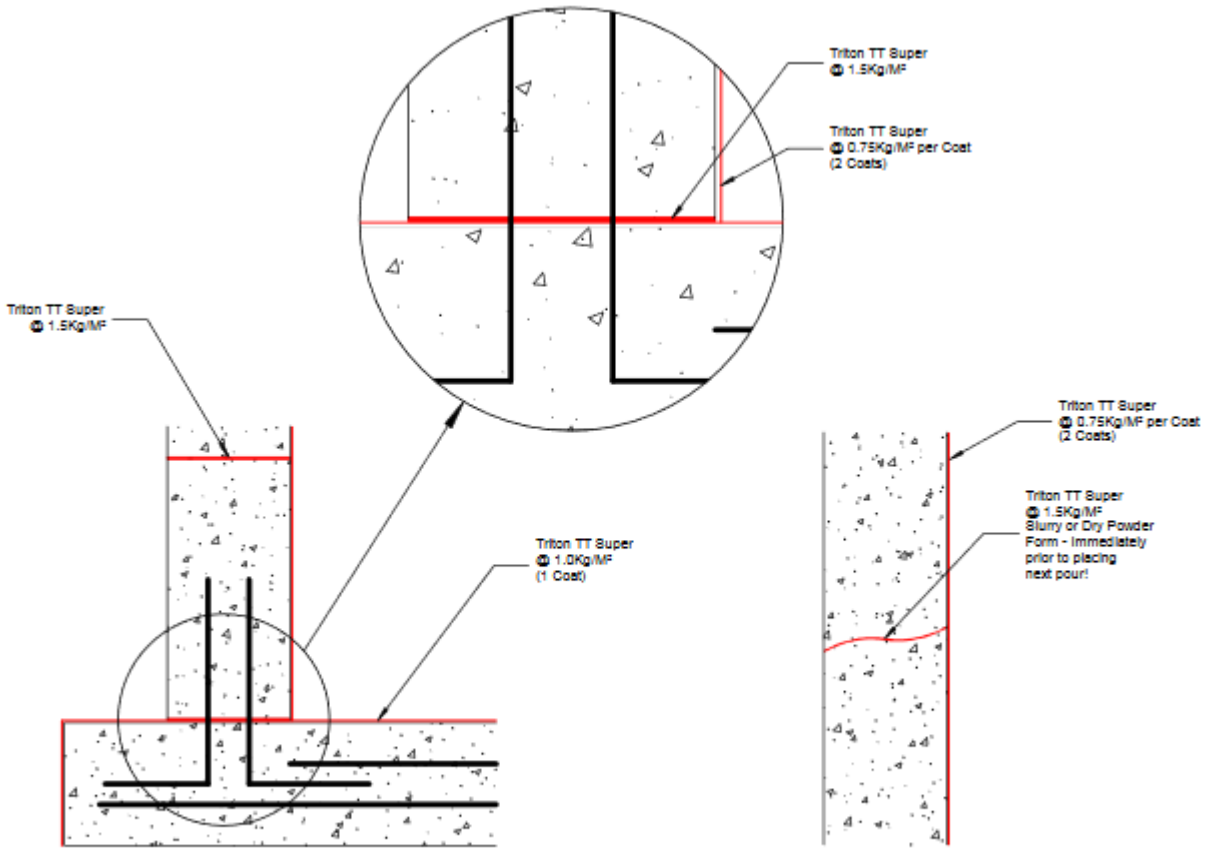
CRYSTALLINE WATERPROOFING:

- Applied to either positive or negative side
- Permanently active
- In depth crystalline Waterproofing and protection from waterborne salts and chemicals.

Areas of Application

- Basements / concrete retaining walls generally or where a second form of waterproofing is required in conjunction with a Platon Cavity Membrane system and external access is not safe or practical.
- Concrete slabs and the blinding layer underneath when used externally.
- Construction joints, pile caps, ring beams.
- Water retaining structures, including reservoirs and water tanks.
- Swimming pools

- Sewage treatment plants
- Channels
- Car Parks



New Construction

Construction Joint

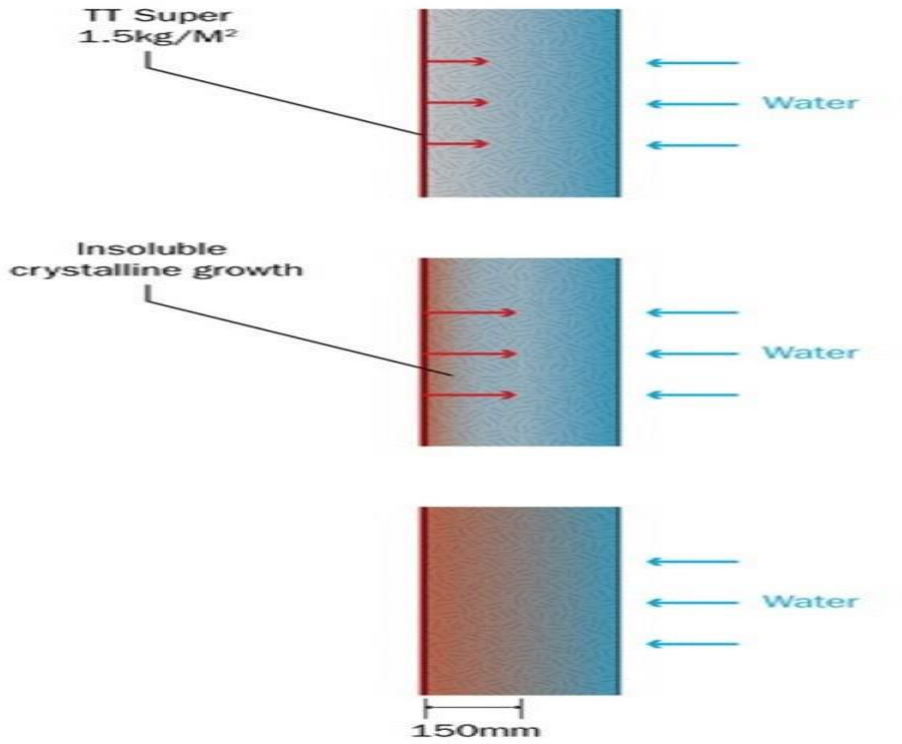
Technical Data

	Triton TT Super	
Withstand water pressure	> 12 bars @ 28 days	
Colour	Cement grey	
Bulk density	Approx 1.25	
Setting time	60 min	

All data are averages of several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity and porosity of substrate may affect those values.

Properties

When **Triton TT SUPER** is applied to a concrete surface the active chemicals combine with the free lime and moisture present in the capillary tract, to form insoluble crystalline complexes. These crystals block the capillaries and minor shrinkage cracks in the concrete to prevent any further water ingress (even under pressure). The waterproof layer will still allow the passage of water vapour through the structure (i.e. the concrete will still be able to "breathe"). In addition to waterproofing the structure, **Triton TT SUPER** protects concrete against seawater, wastewater, aggressive ground water and certain chemical solutions. Triton TT Super is a very cost effective alternative to physical membranes due to its rapid application to large areas and ease of detailing around complicated shapes. **Triton TT SUPER** is not a decorative material. Additional waterproofing measures will be required in order to satisfy the requirements for a Grade 3 Habitable environment as laid out in BS 8102:2009.



Surface Application

All concrete to be treated with **Triton TT SUPER** must be clean and have an "open" capillary system. Remove laitance, dirt, grease etc… by means of high pressure water jetting, wet sandblasting or wire brushing.

Faults within the concrete, in the form of cracks, honeycombing etc, must be chased out, coated with **Triton TT SUPER** and filled flush with **Triton Fillet Seal**. Leaks should be plugged with Triton TQS (see separate data sheet for instructions). Surfaces must be carefully pre watered prior to the **Triton TT SUPER** application. The concrete surface must be damp but not 'shiny' wet or covered with standing water.

Mixing

Triton TT SUPER is mechanically mixed with clean water to a consistency of thick oil paint. Approximate mixing ratio is 2 parts water to 5 parts of powder (by volume). Approximately 8 litres of water per 25kg TT Super.

Mix powder and water together in clean container using a slow speed paddle mixer for a minimum of 3 minutes until lump free and of a homogenous consistency. Ensure that you have added enough water to obtain the correct consistency and that the substrate is pre-wetted, if not, the product will not spread out efficiently and usage rates will be exceeded.

Mix only as much as can be used within 20 minutes and stir the mixture frequently. If the mixture starts to set do not add more water, simply re-stir to restore workability.

Application

Slurry.
Apply **Triton TT SUPER** in one or two coats according to specification by masonry brush, soft broom or appropriate power spray equipment. When two coats are specified apply the second coat whilst the first coat is still "green".

Dry powder (for horizontal surfaces only).
The specified amount of **Triton TT SUPER** is distributed in powder form through a sieve and trowelled into the freshly placed concrete after it has reached initial set (when the concrete can be walked on leaving an imprint 10mm deep).

Post treatment.
Once the **Triton TT SUPER** treatment has reached initial set it should be moist cured with a fine fog spray of water 2-3 times per day for three days and, if practical, covered with moist hessian or plastic sheeting. In hot or windy conditions, it should be moist cured more frequently. During the curing period the **Triton TT SUPER** treatment must be protected from rainfall, frost or puddling of water.

NOTE: Do not apply **Triton TT SUPER** at temperatures below +5^{o}C. **Triton TT SUPER** cannot be used as an additive to concrete, please refer to **Triton TT SUPER ADMIX** data sheet.

Consumption

Concrete surfaces to be backfilled.
One coat of **Triton TT SUPER** at 0.75kg/m^2 followed by one coat at 1kg/m^2. Brush or spray applied.

Water retaining structures, internal concrete wall surfaces.
Two coats of **Triton TT SUPER** each at 0.75kg/m^2. Brush or spray applied.

Concrete slabs.
Triton TT SUPER at 1.00kg/m^2 applied in one slurry coat to hardened concrete or dry sprinkled and trowel applied to fresh concrete when this has reached initial set.

Construction Joints.
Triton TT SUPER at 1.5kg/m^2 applied in slurry or dry powder consistency immediately prior to placing the next lift/bay of concrete.

Blinding concrete.
Triton TT SUPER at 1.2kg/m^2 brush applied as a slurry prior to placing the overlay concrete slab. If placement of the slab is delayed, the TT Super will remain active but should be kept clean.

Packaging

25kg bags or tubs

Storage

When stored in a dry place in unopened, undamaged original packaging, shelf life is 12 months.

Health and Safety

Triton TT SUPER contains cement and is Irritating to eyes and skin. **Triton TT SUPER** may cause sensitisation by skin contact. Keep out of reach of children. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves.

For full information consult the relevant Material Safety Data Sheet.

* for chemical resistances please contact your Triton representative.

For further information, please contact:

Triton Systems
Units 3 – 5 Crayford Commercial Centre, Greyhound Way, Crayford, Kent DA1 4HF

Tel: 01322 318830 **Fax:** 01322 524017

Email: info@tritonsystems.co.uk www.tritonsystems.co.uk

Certificate of Test

Title:

TRITON CHEMICAL MANUFACTURING

Adhesion Testing of Triton TT-55 Coated System

Certificate of Test No: **5719**

Client's Name & Address:

Triton Chemical Manufacturing
Triton House
Lyndean Industrial Estate
129 Felixstowe Road
Abbeywood
London, SE2 9SG

Our Ref:	**231S/SPJ/JM/067b**
TEL Job No:	**6729**
Your Ref:	**4126/99F**
Date:	**1st September, 1999**
Date Sample(s) Received:	**4th May, 1999**
Sample(s) Received From:	**Triton Chemical**

Sample No(s): **126176/3**

Tested By: ..... **S Stoute**

Authorised By: ..... **A T Blake**

For

TAYWOOD ENGINEERING
CONSULTANTS IN DESIGN AND TECHNOLOGY

Technology
345 Ruislip Road, Southall, Middlesex, UB1 2QX
Tel. No. 0181 – 578 2366 Fax No. 0181 – 575 4215
Registered Office Southall Registered No. 1090601 England

TEL

1. SAMPLE REQUIREMENTS

Approximately 3.5kg of Triton TT-55 was received for bond strength determination on a concrete substrate.

2. METHOD

2.1 Sample Preparation

One coat of Triton TT-55 was trowel applied at an application rate of 3kg/m^2 on to a concrete paving slab from which the surface laitance had been removed by using a stiff brush. A second coat was applied at right angles to the first, 24 hours later, at a rate of 3kg/m^2.

The coating was cured for three days at 23±2°C in a plastic bag and conditioned for fourteen days at 23 ± 2°C and 60 ± 5% RH.

When cured and conditioned the coating was cored through to expose the concrete substrate in randomly selected test areas, at a diameter of 50mm. These areas were then briefly washed clean, dried and gently wiped with a propriety solvent (Genklene). The test surfaces of several 50mm diameter aluminium dollies were also cleaned, using abrasive paper, soapy water, clean water and finally solvent washing.

2.2 Adhesion Testing

The test dollies were adhered to the prepared test surfaces using a quick setting epoxy resin. The tensile pull-off failure loads were then measured using a 'Limpet' test apparatus.

3 RESULTS

The results of the test are detailed in Table 1.

ADHESION TEST RESULTS

Table 1

T.E.L. SAMPLE NUMBER	SURFACE AREA (mm^2)	FAILURE LOAD (kN)	FAILURE LOAD (MPa)	MODE OF FAILURE
126176/3A	1947.82	4.36	2.24	20% Coating/concrete adhesive failure 80% Coating cohesive failure
126176/3B	1947.82	2.26	1.16	60% Coating/concrete adhesive failure 40% Coating cohesive failure
126176/3C	1947.82	2.60	1.33	30% Coating/concrete adhesive failure 70% Coating cohesive failure

Date tested:- 18.08.99.

The above failure modes are all categorised as a "mixed" failure. This is where failure occurs at the concrete interface and within the coating.

Certificate of Test

Title:

TRITON CHEMICAL MANUFACTURING

Triton TT-55

Water Permeability Determination On Coated Concrete Cores

Certificate of Test No: **5717**

Client's Name & Address:

Triton Chemical Manufacturing
Triton House
Lyndean Industrial Estate
129 Felixstowe Road
Abbeywood
London, SE2 9SG

Our Ref:	**231S/SS/JM/066c**
TEL Job No:	**6729**
Your Ref:	**4126/99F**
Date:	**20th September, 1999**
Date Sample(s) Received:	**4th May, 1999**
Sample(s) Received From:	**Triton Chemical**

Sample No(s): **126176/1**

Tested By: ..... **S Stoute**

Authorised By: ..... **A T Blake**

For

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CONSULTANTS IN DESIGN AND TECHNOLOGY

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TEL

1. SAMPLE REQUIREMENTS

Approximately 3.5kg of Triton TT-55 was received for water permeability determination on coated concrete cores in general accordance with DIN 1048 and the Taywood Engineering In House Test Procedure.

2. METHOD

2.1 Sample Preparation

Two coats of Triton TT-55 was trowel applied to 100mm diameter concrete cores at a rate of 3kg/$m^{2,}$, giving a total coating rate of 6kg/m^2 .The second coat was applied 90° to the first allowing 24 hours drying time between each coat.

The coating was cured for three days at 23 ± 2°C in a plastic bag and conditioned for fourteen days at 60 ± 5% RH.

2.2 Water Permeability Coefficient Determination

The side of each sample was sealed with epoxy resin, by placing in circular moulds and filling the annular space with cold a curing epoxy resin. When the resin had cured, the specimens were demoulded and the water permeability coefficients were determined for the samples in an as received condition.

The procedure followed was generally in accordance with the test methods quoted above. Water, increasing in pressure at a rate of 1 bar per day, was applied to the uncoated surface of the samples. A diagram of the test equipment is shown in Figure 1. The testing was undertaken in the laboratory at 23±2°C and ambient Relative Humidity.

Permeability coefficient based on the time for penetration were calculated using Valenta's modified formula, and a coefficient based on flow rate and penetration depth was calculated using Darcy's formula.

3. RESULTS

The samples were inversely tested up to 3 bar pressure (30m water head). After 24 hours at this pressure, the flow rate of water through the sample was measured.

Tables of Results

Table 1

COATING SYSTEM	TE SAMPLE NO.	DATE	PRESSURE (BAR)	COMMENTS
Triton TT-55	126176/1	22.07.99	1	No signs of debonding or leakage.
Triton TT-55	126176/1	23.07.99	2	No signs of debonding or leakage.
Triton TT-55	126176/1	26.07.99	3	Sample showing signs of moisture on the surface as water begins to penetrate the coating
Triton TT-55	126176/1	27.07.99	3	Water was now penetrating through coating.

Water Permeability Results

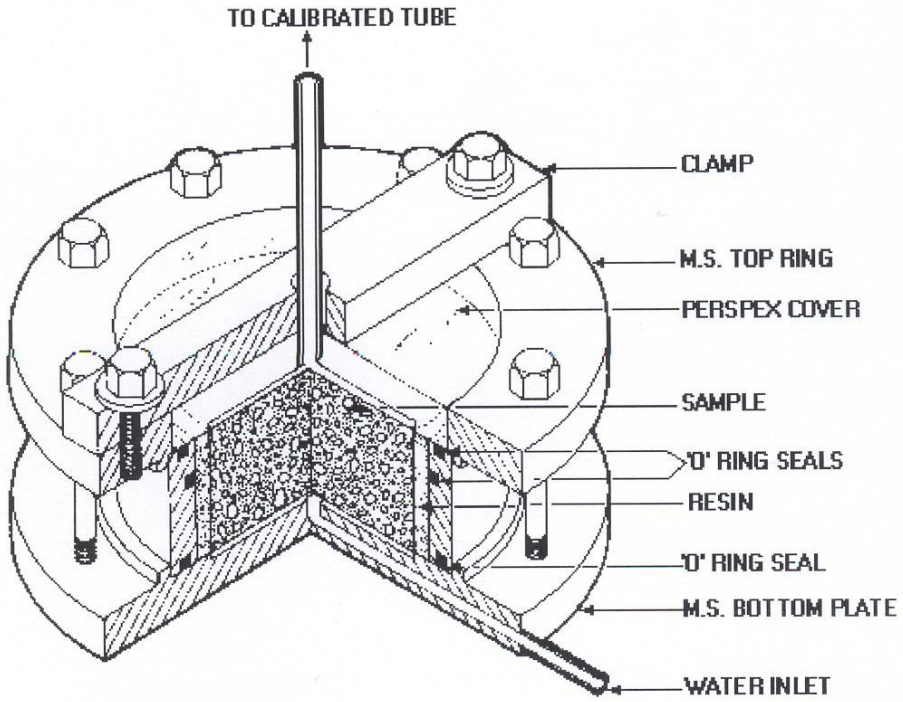
Table 2

Client ID	Triton TT-55
TEL S/N	126176/1
Pressure (Bar)	3
Sample Depth (cm)	5.43
Surface Area (cm)	76.78
Penetration Depth (cm)	5.43
Voids (%)	1.33
Time (hours)	72
Water Permeability. (m/s)	1.89E-12
Based on penetration (Valenta's)	
Based on flow (Darcy's)	3.60E-12

Water penetrated the Triton TT-55 sample on 27.07.99.

WATER PERMEABILITY TEST

FIGURE 1



Liquid Applied/Cementitious Waterproofing Systems – Ancillaries

TRITON SBR

Latex admixture for cementitious mixes to improve workability, durability, flexibility and adhesive bond.

Usage rate: As gauging water for Triton TT55/Triton Fillet Seal, use 4 parts water:1 part Triton SBR.

Supplied in 5 and 25 litre packs.

TRITON LPA

Ready to use emulsion used as a surface primer or as gauging water for Triton Repair Mortar, Triton Floor Levelling Compound, Triton TT Vapour Membrane and Triton TT55.

Usage rate: As gauging water, one 5 litre pack of Triton LPA should be added to one bag of TT55 or Triton Floor Leveling Compound.

Supplied in 5 litre packs.

TRITON FILLET SEAL

Pre-packed cement based product for use as a floor/wall junction seal during waterproofing with using cementitious slurry coatings such as Triton TT55.

Average usage rate: Approximately 15 – 20Lm (30mm x 30mm triangular fillet) per 25kg.

Supplied in 25kg packs.

TRITON QUICK SET

Single component, cementitious, fast setting plugging compound. When mixed with water, produces a material to stem water flow, but can also be used as a fast setting mortar repair.

Usage rate: 1 part water:4 parts TQS by volume or 1 part water:5 parts TQS by dry powder weight.

Supplied in 15 kg packs.

TRITON FLEECEBAND

Reinforcing fabric for use with liquid applied waterproofing systems such as Triton TT Vapour Membrane in areas such as corners, edges and junctions.

Supplied in 1m x 100m rolls.

TRITON REPAIR MORTAR

Pre-packed, modified cement based repair mortar for use with concrete, render and screed repairs. Use with Triton LPA/Primer as primer to the repair area and as gauging solution for mixing the Triton Repair Mortar to enhance the flexural strength of the mix.

Usage rate: 0.4m^2 / 10kg at 10mm thickness.

Available in 10 kg packs.

Triton Contact Details:

Triton Systems Ltd.
Units 3 – 5 Crayford Commercial Centre, Greyhound Way, Crayford, Kent DA1 4HF

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Fax: 01322 524 017
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www.tritonsystems.co.uk

Product Data Sheet

Triton FILLET SEAL

Description and Use

A pre-packed cement based and polymer modified product for use as a floor to wall junction seal during waterproofing works when using cementitious slurry coatings (**Triton TT55)** and renders. In most circumstances **Triton FILLET SEAL** need only be mixed with water for use. Where extra adhesion or flexibility are required, **Triton SBR** latex and **Triton TANKING MIX ELASTIFIER (T.T.M.E)** may be uses respectively.

NOTE: Where water is leaking or seeping the use of **Triton QUICK SET** is advised.

The use of **Triton FILLET SEAL** helps to ensure a smooth transition between horizontal and vertical surfaces which minimizes the risk of leaving gaps or holes unsealed during the water proofing works.

Preparation

- Situations where the **Triton FILLET SEAL** will be employed should already have been prepared in accordance with the slurry coating or render specification. In the majority of instances the **Triton FILLET SEAL** will be applied onto the slurry coated surface as illustrated in FIG.1 below.

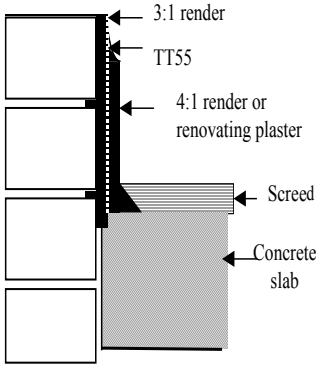

FIG. 1

The **Triton FILLET SEAL** becomes fully encapsulated within the layers of slurry coatings.

Usage

- **Triton FILLET SEAL** normally needs only mixing with clean water before use.
- Add sufficient water to make a cohesive, stiff mortar.
- Ideally the **Triton FILLET SEAL** should be applied to partly cured (green) slurry coating (**Triton TT55)** surfaces to maximize adhesion. If this is not possible make up the **Triton FILLET SEAL** using a gauging solution composed of 1 part **Triton SBR** to 4 parts water (by volume).
- Pre-wet the surface with the same solution just before applying the **Triton FILLET SEAL.**
- When excessive stress concentrations are expected at floor / wall joints the use of **Triton T.T.M.E** added to the mix is advised.
- **Triton T.T.M.E** increases flexibility and should be added neat to **Triton FILLET SEAL** until the required consistency is achieved.
- The slurry coating **(TT55)** under and overcoats should also contain **Triton T.T.M.E.**

NOTE: Only sound substrates suitable to be permanently sealed under a waterproofing system should be treated. Concrete, Brick, Stone, Render and Mortar in poor condition could deteriorate further when sealed inappropriately.

Application / Use

- Wall / Wall and Wall / Floor joint sealing in conjunction with **Triton TT55** waterproofing system.
- As a “non shrink” repair mortar for concrete and as part of repair system for **Triton TT SUPER ADMIX SYSTEM.**

Curing

- Avoid rapid drying out, overcoat as soon as set (5-6 hours dependent on conditions) whenever possible.
- Do not subject to running water until fully hardened (and overcoated).

Storage and Handling

- Avoid breathing dust.
- Wear gloves and eye protection.
- Wash hands and exposed skin after use.
- Must be stored in dry frost-free conditions.
- If bags are stored correctly and unopened they will have shelf life for 12 months.
- Packed in 25kg bags.
- Minimum application temperature: 5°C.
- Maximum application temperature: 30°C.

Coverage

- 15 – 20Lm (25mm x 25mm triangular fillet) per 25kg approximately.

Health & Safety

For full information consult the relevant Material Safety Data Sheet.

*For chemical resistances please contact your Triton representative.

For further information please contact:

Triton Systems Ltd
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www.triton-chemicals.com

Ref: Triton FILLET SEAL 06/11

Product Data Sheet

Triton SBR

Description

Triton SBR (Styrene Butidiene Rubber) Latex admixture for cementitious mixes e.g., Renders, Screeds, Tile adhesives, Patch Repairs and Waterproof Slurry Coatings.

Triton SBR improves the workability and durability of cement mixes. The resultant cured material has the following improved properties over a non latex mix:

- Higher strength, density and water impermeability.
- Increased flexibility and crack resistance.
- Improved adhesive bond allowing thinner layers to be laid.
- Increased chemical resistance.

Directions for use

- **Preparation:** Surfaces to be rendered, screeded etc., must be free from all loose and friable material, dust, dirt, plaster, bitumen, grease etc.
- **Priming Coat:** The application of a priming coat is normally recommended to obtain maximum adhesion to the substrate. The prepared surface should be thoroughly dampened with water (but with no free standing water). A primer coat consisting of two parts Portland Cement mixed with one part **Triton SBR** by volume should be thoroughly worked into the surface by brush or broom. The topping (screed, render etc.) should be applied whilst the primer is still wet.
- **Mixing:** Premix the sand and cement. Add 9-10 litres **Triton SBR** for every 50kg of cement used. Add small amounts of water until the desired consistency is achieved. **Triton SBR** has a plasticizing / water reducing effect and less water than normal will be required. Do not over-mix.
- **Application:** The thickness of renders should be restricted to about 7mm per coat to avoid sagging. Multi coats can be applied in relatively quick succession:- 30-60 minutes. Screeds can be placed as normal (priming coat recommended). Avoid over-finishing or rapid drying, if necessary cover with polythene for 24-48 hours after placing.

Uses

- Priming of walls prior to plastering.
- As gauging water for **Triton TT55 / FILLET SEAL** (4 parts water : 1 part **Triton SBR)**
- To add flexural strength to screeds & renders.

Technical Data

• TOTAL SOLIDS	%	44.5
• SPECIFIC GRAVITY	g/l	1.01
• PH		10.5

Specification

NBS: Clause M20 62 449 (Plastered / Rendered / Roughcast Coatings)

Safety Precautions

- Wear gloves and eye protection.
- Wash hands and exposed skin after use.
- Store in original container in a safe place.

Packaging

Available in 5 litre and 25 litre containers.

Health & Safety

For full information consult the relevant Material Safety Data Sheet.

*For chemical resistances please contact your Triton representative.

For further information please contact:

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Ref: Triton SBR 06/11

Product Data Sheet

Triton LPA / PRIMER

Description

Triton LPA / PRIMER (LIQUID POLYMER ADDITIVE) is a ready to use emulsion which will improve the adhesion, water resistance, salt resistance, integral strength and surface durability, increase chemical resistance of **Triton FLOOR LEVELLING COMPOUND** and **Triton REPAIR MORTAR.**

It also improves the workability and durability of cement mixes such as renders and screeds.

It Is suitable for use as a priming solution for walls prior to plastering / rendering, and as a gauging solution for **Triton REPAIR MORTAR, TT55** and **FILLET SEAL.**

Directions for Use:

Surfaces to be rendered, screeded or where **Triton FLOOR LEVELLING COMPOUND** is to be used must be free from all loose and friable material, dust, dirt, plaster, bitumen, grease, etc….

1. **Priming Coat:** The application of a priming coat is normally recommended to obtain maximum adhesion to the substrate. **Triton LPA / PRIMER** should be thoroughly worked into the prepared surface by brush or broom. The topping (plasters, screeds, renders, etc.) to be applied when the **Triton LPA / PRIMER** is still tacky. Where substrates are particularly porous then **Triton NEOPRENE PRIMER** should be used.
2. **Gauging Solution:** For **Triton FLOOR LEVELLING COMPOUND** and **TT55** add the **Triton LPA / PRIMER** to the mixing vessel and slowly add the powder components whilst stirring with a mechanical whisk. Add one 5 litre pack of **Triton LPA / PRIMER** to one bag **TT55** or **FLOOR LEVELLING COMPOUND** however, extra water up to 1 litre may be required to achieve correct consistency.

Uses

- As primer to walls, floors and roofs
- As surface primer for **Triton REPAIR MORTAR, FLOOR LEVELLING COMPOUND, TTVM, HR** and **RC.**
- As gauging water for **Triton TT55, FILLET SEAL, FLOOR LEVELLING COMPOUND** and **REPAIR MORTAR.**
- To add flexural strength to screeds and renders.

Safety Precautions

- Wear gloves and eye protection
- Avoid skin and eye contact
- Wash hands and exposed skin after use.
- Store in original container in a safe place.

Packaging

Available ready to use in 5 litre containers.

Health & Safety

For full information consult the relevant material safety data sheet.

For other details and technical information please contact your Triton Systems representative.

For further information please contact:

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Product Data Sheet

Triton TWS-EX Primer

Triton TWS-EX Primer is designed to be used in conjunction with Triton TWS-EX100 and Triton TWS-EX100GM membranes in order to consolidate the substrate and ensure complete bond development.

Supplied as a single pack, brush applied liquid coating.

Coverage – 8m²/L.

Technical Data

Type	Bitumen solution
Viscosity	500 cP
Solids content	48%
Flash point	>39°C
Wet film thickness	90 – 110 microns
Dry film thickness	45 – 60 microns
Specific gravity	0.92
Packing	Supplied in 5L and 25L drums

Triton TWS-EX Primer LT (low temperature)

Triton TWS-EX Primer LT is a fast drying primer designed to be used in conjunction with Triton TWS-EX100 and Triton TWS-EX100GM membranes in order to consolidate the substrate and ensure complete bond development.

Classed as moisture tolerant, Triton TWS-EX Primer LT can be applied to damp or slightly green concrete.

Coverage – 8m²/L.

Supplied as a single pack, brush applied liquid coating.

Technical Data

Type	Aromatic solvent/Bitumen solution
Solids content	48%
Specific gravity	0.92
Packing	Supplied in 5L and 25L drums

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Product Data Sheet

Triton TWS-EX Primer

Triton TWS-EX Primer is designed to be used in conjunction with Triton TWS-EX100 and Triton TWS-EX100GM membranes in order to consolidate the substrate and ensure complete bond development.

Supplied as a single pack, brush applied liquid coating.

Coverage – 8m²/L.

Technical Data

Type	Bitumen solution
Viscosity	500 cP
Solids content	48%
Flash point	>39°C
Wet film thickness	90 – 110 microns
Dry film thickness	45 – 60 microns
Specific gravity	0.92
Packing	Supplied in 5L and 25L drums

Triton TWS-EX Primer LT (low temperature)

Triton TWS-EX Primer LT is a fast drying primer designed to be used in conjunction with Triton TWS-EX100 and Triton TWS-EX100GM membranes in order to consolidate the substrate and ensure complete bond development.

Classed as moisture tolerant, Triton TWS-EX Primer LT can be applied to damp or slightly green concrete.

Coverage – 8m²/L.

Supplied as a single pack, brush applied liquid coating.

Technical Data

Type	Aromatic solvent/Bitumen solution
Solids content	48%
Specific gravity	0.92
Packing	Supplied in 5L and 25L drums

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Product Data Sheet

Triton QUICK SET (T.Q.S)

Description and Use

Triton QUICK SET (T.Q.S) plugging compound is a one part fast setting cementitious material developed to stem water flow. **T.Q.S** as with all plugging compounds plug leaks to allow application of waterproofing layers to cure, but can be used as an all purpose instant setting repair mortar with a wide range of application.

A SIMPLE AND EASY TO USE VERSATILE MATERIAL, JUST ADD WATER.

Instructions for Use

- Mix up to 0.5kg of **T.Q.S** at a time.
- Mix quickly with clean water to a mortar consistency within 30 seconds and apply immediately by trowel or gloved hand and apply constant even pressure (when plugging water flow – approx. 30-60 seconds) until set.

Mixing Ratio

- Mix 1 part water to 4 parts powder by volume or 1 part water to 5 parts powder by weight. (Dry powder weight approximately 1220gms per litre).
- The mixing ratio is not critical and has little effect on the setting time.

T.Q.S Plugging compound is non-toxic, contains no chloride and is free from synthetic resins or epoxides.

Warning: Use rubber gloves to protect from heat generated during the setting period.

Storage

Store in dry conditions.
Stored correctly, shelf life is 12 months

Consumption

1.9kg/m² per mm thickness.

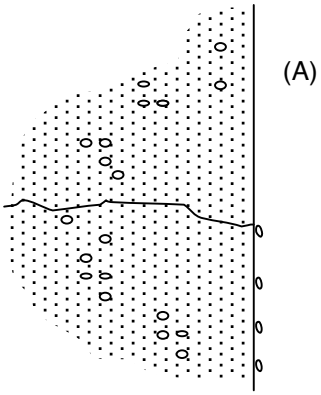
Health & Safety

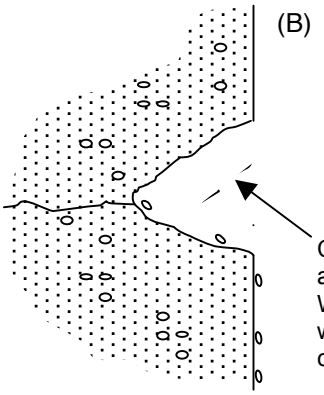
T.Q.S contains ordinary Portland cement and is alkaline when mixed. It is odourless, contains no organic solvent and is not flammable. In the case of eye or skin contact wash immediately with water or saline solution. Obtain medical attention if irritation persists. If ingested do not induce vomiting, wash mouth out with water, drink water and seek medical attention. Handle in accordance with good industrial hygiene and safety practices. Wear impermeable plastic or rubber gloves and enclosed goggles for eye protection at all times when handling alkaline materials. All chemical materials should be treated with care and kept away from children and animals at all times.

For full information consult the relevant Material Safety Data Sheet.

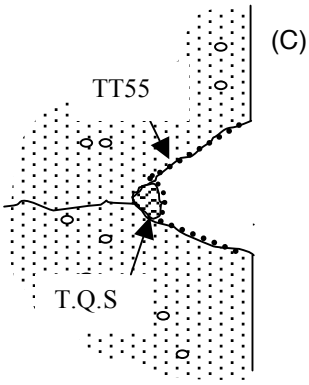
*For chemical resistances please contact your Triton representative.

PLUGGING SEVERE LEAKS WITH TRITON QUICK SET





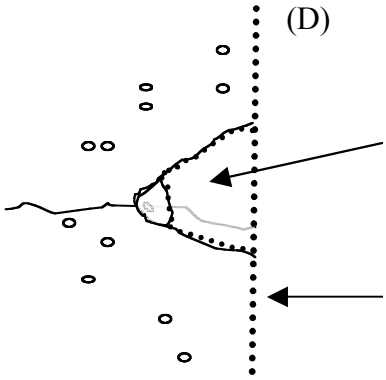
Chisel out defective area to a depth of approximately 50mm.
Wash out the cutting thoroughly with clean water to remove loose matter and soak the concrete



Stem the flow of water by plugging the back of the cutting as illustrated with **Triton QUICK SET.**

Remove any loose material and ensure that the concrete is thoroughly soaked and will not absorb any more water.

Remove any surface ponding and treat the cavity with a brush on coat of **TT55** as illustrated.



When the coating of **TT55** has dried to a tacky consistency fill the cavity with **Triton FILLET SEAL** ensuring the same is compacted back to surface

When mortar has set, apply a coating **TT55** to the surface of the repaired area as shown.

For further information please contact:

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www.tritonsystems.co.uk

Ref: Triton Quick Set (T.Q.S) 06/11

Product Data Sheet

Triton REPAIR MORTAR

Description and Use

Triton REPAIR MORTAR is a pre-packed polymer modified cement based repair mortar for use with concrete, render and screed repairs. **Triton REPAIR MORTAR** is used with **Triton LPA** / **PRIMER** as both primer to repair area and gauging solution for mixing **Triton REPAIR MORTAR.**

Triton REPAIR MORTAR is a non-shrink mortar providing a smooth concrete grey finish to repair areas. The use of the **Triton LPA** / **PRIMER** enhances the flexural strength of the **Triton REPAIR MORTAR** and is particularly recommended when used in areas subject to slight movement. Areas of use:

- Repairing Honeycombed Concrete
- Leaking Construction Joints (**Triton QUICK SET** also required)
- Spalled Concrete
- Screed Repair
- Repair / replacement of Render Sections.

Preparation

Area requiring repairs should be taken back to sound substrate. All loose debris, dust, paint and oils to be removed. The area should then be primed with **Triton LPA** / **PRIMER.**

Mix the **Triton REPAIR MORTAR** with **Triton LPA** / **PRIMER** to a stiff render consistency, and once primed area has gone “tacky” apply **Triton REPAIR MORTAR** pressing it firmly into repair area. Smooth over surface with steel trowel to required finish.

Where repair are is deep in excess of 50mm the **Triton REPAIR MORTAR** should be built up in layers to avoid slumping of the product in the repair.

When patch repairing screeds or floors leave the **Triton REPAIR MORTAR** to fully cure before trafficking, minimum 3 days.

Curing

- Avoid rapid drying out
- Do not subject repair area to traffic for minimum 3 days
- Initial set approx. 60 mins, full set approx. 5-6 hours, full cure 3-7 days, subject to ambient conditions at time of repair.

Storage and Handling

- Avoid breathing dust.
- Wear gloves and eye protection
- Wash hands and exposed skin after use
- Must be stored in dry frost conditions
- If tubs are stored correctly and unopened they will have a shelf-life for 12 months.
- Packed in 10kg tubs
- Minimum application temperature 5 degrees
- Maximum application temperature 30 degrees

Coverage

- 0.4m² / 10kg at 10mm thickness
-

Health & Safety

For full information consult the relevant material safety data sheet.

For additional information and suitability of use please contact your Triton Systems Technical Representative.

For further information please contact:

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Product Data Sheet

Triton COLFLEX

Ready to use sealing system for cracks and joins subject to a large dilatation. **Triton COLFLEX** is a high quality joint sealing system combined with **Triton TRIMOL23 Epoxy Adhesive.**

Field of Application

- **Triton COLFLEX** is applied as sealing system for concrete joints.
- Sealing moving joints such as expansion joint.
- **Triton COLFLEX** is applied to joints with positive or negative water pressure.
- **Triton COLFLEX** can also be used for the treatment of isolated cracks in concrete and as drains in underground waterproofing.

Advantages

- **Triton COLFLEX** can be applied to both wet or dry surfaces using **Triton TRIMOL 23**
- **Triton TRIMOL 23** has fast curing times, even at low temperatures.
- **Triton COLFLEX** can be used for joints or cracks with large dilations.
- The combination remains elastic, even at low temperatures.
- Weather and water resistant.
- Very good all round chemical resistance*.
- **Triton TRIMOL 23** has a very high adhesion to most construction materials.
  Fast and easy to use.

Description

- **Triton COLFLEX** is an elastic sealing tape made of hypalon.
- Hypalon tape has a uniform grey colour.
- Tape thickness is 1mm and 2mm. Standard widths are 100mm and 200mm (1mm and 2mm thickness).
- **Triton COLFLEX** is supplied on 20m rolls.
  The **Triton COLFLEX** system is applied using **Triton TRIMOL 23.**

Application

Triton COLFLEX should be applied to a level and dust-free surface. Concrete surfaces need to be at least 29 days old. During application, water pressure on the tape should be avoided. Eventual water pressure needs to be relieved through placing drains using fast setting cement type **Triton Quick Set.**

1. **Application procedure**

Preparation of the joint

- The joint edges need to be clean and sound. This can be achieved by brush or sandblasting.
- Remove dust, dirt and loose particles with compressed air or brush.

Preparation of Triton COLFLEX

- Thoroughly degrease and activate with **Triton TRIMOL CLEANER**
- Use a sufficient quantity of **Triton TRIMOL CLEANER** applied with a lint free cloth.
- Apply a strip of masking tape to the centre of the **Triton COLFLEX** sheet.

Preparation of the glue

- **Triton TRIMOL 23** is supplied as pre-weighted kits.
- Empty B-component completely into A-component (large pail).
- Mix thoroughly until a uniform colour is achieved. Mix with an electric or pneumatic mixer at low speed (approx.. 500 rpm).

Application of the glue

- Apply a strip of masking tape to the edges of the joint to be treated. The tape should be applied 2 cm besides the edges of the **Triton COLFLEX** sheet.
- Apply **Triton TRIMOL 23** to the edges of the joint.
- Thickness of the layer may vary from 1 to 2mm depending on the surface texture.

Application of the tape

- Apply **Triton COLFLEX** within 30min onto the layer of the glue. Press the tape down firmly until glue comes through the anchoring perforations.
- Apply a second layer of glue 1 to 2mm thick on top with an overlap of at least 2cm over both edges.

Finishing the joint

- Remove the tape in the middle of the **Triton COLFLEX** sheet before the glue has set.

Hot air welding

- The weld is made using a hot air blower. The efficiency of the weld depends on the hot air temperature and the weld time. The weld surface needs to be at least 50mm.

Technical Data / Properties

Property	Value	Norm	
Triton COLFLEX			
Thickness	**1mm and 2mm**	**ASTM D 412**	
Weight/surface	**1.5kg / m² / mm**	**Test DNC**	
Colour	**Light Grey**		
Tensile strength	**Approx.. 6 MPa**	**ISO 527**	
Elongation at break	**Approx. 425%**	**ISO 527**	
Tear strength	**Approx. 30 N/mm**	**ISO 34-1**	
Hardness Shore A	**80**	**DIN 53505**	
Anchoring perforations	**1cm from the edge at 5cm interval**		
Triton TRIMOL 23 Thixotropic Timber Adhesive			
THIXOTROPIC ADHESIVE Mechanical Properties after curing 21 days at 20°C Test temperature 20°C			
Tensile strength ISO/R.527		**MPa**	**14.8**
Tensile modulus (E) ISO/R.527		**GPa**	**7.3**
Elongation at break ISO 178		**%**	**1**
Flexural strength* ISO 178		**MPa**	**37**
Compressive strength* ISO 604		**MPa**	**8033**
Applied system with Triton TRIMOL 23			
Tensile strength	**< 4.5 MPa**		
Elongation at break	**> 220%**		

Full chemical or mechanical resistances are only reached after a curing period of 7 days at 21°C. Mechanical properties of epoxy resins decrease at temperatures higher than 50°C.

Appearance

- **Triton COLFLEX** : Grey
- Thickness : 1mm and 2mm
- Width : 100mm and 200mm (1mm and 2mm Thickness)

Consumption

Triton COLFLEX : 1m per linear metre of treated joint Triton TRIMOL 23 (Estimate)

Type Triton COLFLEX 100mm, 1mm
- 0.60kg/linear m joint (2mm bottom layer, 1mm top layer)
- 0.80kg/linear m joint (2mm bottom layer, 2mm top layer)

Type Triton COLFLEX 100mm, 2mm
- 0.68kg/linear m joint (2mm bottom layer, 1mm top layer)
- 0.86kg/linear m joint (2mm bottom layer, 2mm top layer)

Type Triton COLFLEX 200mm, 1mm
- 1.15kg/linear m joint (2mm bottom layer, 1mm top layer)
- 1.51kg/linear m joint (2mm bottom layer, 2mm top layer)

Type Triton COLFLEX 200mm, 2mm
- 1.22kg/linear m joint (2mm bottom layer, 1mm top layer)
- 1.58kg/linear m joint (2mm bottom layer, 1mm top layer)

Packaging

Triton COLFLEX rolls
- Width : 100mm and 200mm
- Length : 20m

Storage

Triton COLFLEX unlimited in a dry place

Triton Trimol 23 should be stored in the original packaging in a dry area. Storage temperatures must be between 5°C and 30°C. Once a pail has been opened, the useful life of the material is greatly reduced and should be used as quickly as possible.

Shelf life: 1 year

Accessories (To be ordered separately)

Triton TRIMOL 23 Adhesive
Triton TRIMOL CLEANER

Health & Safety

Epoxy resins and solvents can irritate skin and mucous membranes.
Always wear rubber gloves and protective goggles. In case of splashes in the eyes, rinse abundantly with water and contact physician.
For additional information, consult the relevant MSDS.
For further information please contact:

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Product Data Sheet

TRITON FLEECE BAND

SYNTHETIC REINFORCEMENT BAND

TRITON FLEECE BAND is a synthetic textile reinforcing band which is indispensable for use in details, joints, corners and exceptional situations in liquid waterproofing system.

PROPERTIES

- Great absorption and compatibility with liquid waterproofing systems based on polyurethanes and acrylics.
- Easy applications and adaptable on any surface
- Increases cohesion in Triton TT Vapour Membrane & Triton RC liquid systems.
- Resistant to alkalis in Cement
- Excellent elasticity, which enhances the overall performance of liquid waterproofing systems.
- Complements liquid waterproofing systems as a reinforcement.

PRECAUTIONS

- Do not use Triton FLEECE BAND as a puncture resistant reinforcement where liquid membrane waterproofing is applied. When the liquid membrane system is to be covered with concrete screed, a protective layer such as Platon Double Drain must be placed on the liquid membrane to protect it from puncture.

PACKING

- Bands of 0.3 x 100m (30m²)
- Rolls 1m x 100m (100m²)

APPLICATIONS

- **Triton FLEECE BAND:** Reinforcement for liquid membranes in unique areas such as corners, edges, junctions, bases of roof top equipments, chimneys, etc.
- **Triton FLEECE BAND:** Treatment of cracks in conjunction with the liquid membrane.

TECHNICAL DATA

Composition	Thermal bonded polyester reinforcement fabric /nonwoven
Weight	70 g/m² UNE – EN ISO 9864
Thickness	0.65 mm UNE – EN ISO 9863 – 1
Tensile Strength	1.8 KN/m (Long) 4.2 KN/m (Transv.) UNE – EN ISO 10319
Elongation	Long: 93%, Transv: 94%
Static indentation	500 N (0.5 KN) CBR UNE – EN ISO 12236

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TRITON SYSTEMS:

Tel: 01322 318830

J10 CEMENTITIOUS MORTAR TANKING / DAMP PROOFING

To be read in conjunction with prelimaries / General conditions.

TYPES OF TANKING / DAMP PROOFING

110A CEMENTITIOUS POLYMER MODIFIED TANKING MIX

- Substrate:……..
- Concrete, rendered brick / blockwork.
- Manufacturer: Triton Systems, 3-5 Crayford Commercial Centre, Greyhound Way, Crayford. DA1 4HF.
- Tel: 01322 318830. Fax: 01322 524017.
- Email: info@tritonsystems.co.uk. Web: www.tritonsystems.co.uk.
-
- Product reference: Triton TT55ME Tanking Slurry.
- 25kg Triton TT55 mixed with 10kgs Triton TTME.
- Number of layers (minimum): Two
- Thickness: 1.5mm – 2mm each layer, maximum 5mm.
- Primer: Not required.
- Finish: Render / Plaster.

360 COLD WEATHER

- General: Do not use frozen materials or apply coatings to frozen or frost-bound substrates.
- Air temperature requirements: Do not apply coatings when at or below 5ºC and falling.
- Temperature of work: Maintain above 5ºC until coatings have hardened

PREPARING SUBSTRATES

410A SUITABILITY OF SUBSTRATE

- Preparation generally: To Triton Systems recommendations.
- Stability and soundness: free from movement and loose or weak areas that will cause failure of the tanking.
- Key: To achieve firm adhesion of the tanking.
- Contamination: Free from previous coatings and contaminants including laitance, dirt, dust, efflorescence, mould, oil, paint and plaster.
- Cracks, porous patches and other defective areas subject to water pressure and liable to admit water: Control and seal using Triton Quick Set / Triton Fillet Seal.

420A PREPARATION OF MORTAR JOINTS AND CAVITIES

- Mortar joints: Rake out to a depth of 12mm minimum.
- Debris: Remove and flush out with water.
- Fill: Repoint with waterproof mortar to Triton Systems recommendations.

420A TANKING INTEGRITY

- Penetrations for fixings, services, etc: Not permitted.

EXECUTION

510A APPLICATION GENERALLY

- Application methods: Substrate surfaces are to be thoroughly soaked with clean water until uniformly saturated without standing water, prior to application.

520 JOINTS / JUNCTIONS AND PENETRATIONS

- Abutments, joints and active cracks: Sealed and watertight.
- Movement joints: Centred over joints in substrate and continued through waterproof coating and finishes.
- Daywork joints in successive coatings: Staggered and lapped.
- Angled joints: Not permitted.
- Penetrations: Watertight.

530 APPEARANCE OF TANKING

- Render / Screed coatings: Even and consistent. Free from rippling, hollows, ridges, cracking and crazing.
- Accuracy: A true plane, to correct line and level. Walls and reveals plumb and square with neat arrises.
- Thin slurry coatings: Consistent and free from hollows, cracks and crazing. Suitable to receive specified finish.

550A CURING AND DRYING

- General: Prevent premature setting, uneven drying and cracking of each coat.
- Curing coatings: Prevent evaporation from surface.
- Curing period: Normally overnight, temperature dependent.

560 PROTECTION

- Mechanical damage: Prevent impact and abrasion.
- Application of protective coatings / linings: After completion of curing.

TRITON SYSTEMS:

Tel: 01322 318830

J10 CEMENTITIOUS MORTAR TANKING / DAMP PROOFING

To be read in conjunction with prelimaries / General conditions.

TYPES OF TANKING / DAMP PROOFING

110A CEMENTITIOUS POLYMER MODIFIED TANKING MIX

- Substrate:……..
- Concrete, rendered brick / blockwork.
- Manufacturer: Triton Systems, 3-5 Crayford Commercial Centre, Greyhound Way, Crayford. DA1 4HF.
- Tel: 01322 318830. Fax: 01322 524017.
- Email: info@tritonsystems.co.uk. Web: www.tritonsystems.co.uk.
-
- Product reference: Triton TT55 Tanking Slurry.
- Number of layers (minimum): Two
- Thickness: 1.5mm – 2mm each layer, maximum 5mm.
- Primer: Not required.
- Finish: Render / Plaster.

360 COLD WEATHER

- General: Do not use frozen materials or apply coatings to frozen or frost-bound substrates.
- Air temperature requirements: Do not apply coatings when at or below 5ºC and falling.
- Temperature of work: Maintain above 5ºC until coatings have hardened

PREPARING SUBSTRATES

410A SUITABILITY OF SUBSTRATE

- Preparation generally: To Triton Systems recommendations.
- Stability and soundness: free from movement and loose or weak areas that will cause failure of the tanking.
- Key: To achieve firm adhesion of the tanking.
- Contamination: Free from previous coatings and contaminants including laitance, dirt, dust, efflorescence, mould, oil, paint and plaster.
- Cracks, porous patches and other defective areas subject to water pressure and liable to admit water: Control and seal using Triton Quick Set / Triton Fillet Seal.

420A PREPARATION OF MORTAR JOINTS AND CAVITIES

- Mortar joints: Rake out to a depth of 12mm minimum.
- Debris: Remove and flush out with water.
- Fill: Repoint with waterproof mortar to Triton Systems recommendations.

420A TANKING INTEGRITY

- Penetrations for fixings, services, etc: Not permitted.

EXECUTION

510A APPLICATION GENERALLY

- Application methods: Substrate surfaces are to be thoroughly soaked with clean water until uniformly saturated without standing water, prior to application.

520 JOINTS / JUNCTIONS AND PENETRATIONS

- Abutments, joints and active cracks: Sealed and watertight.
- Movement joints: Centred over joints in substrate and continued through waterproof coating and finishes.
- Daywork joints in successive coatings: Staggered and lapped.
- Angled joints: Not permitted.
- Penetrations: Watertight.

530 APPEARANCE OF TANKING

- Render / Screed coatings: Even and consistent. Free from rippling, hollows, ridges, cracking and crazing.
- Accuracy: A true plane, to correct line and level. Walls and reveals plumb and square with neat arrises.
- Thin slurry coatings: Consistent and free from hollows, cracks and crazing. Suitable to receive specified finish.

550A CURING AND DRYING

- General: Prevent premature setting, uneven drying and cracking of each coat.
- Curing coatings: Prevent evaporation from surface.
- Curing period: Normally overnight, temperature dependent.

560 PROTECTION

- Mechanical damage: Prevent impact and abrasion.
- Application of protective coatings / linings: After completion of curing.

TRITON SYSTEMS:

Tel: 01322 318830

J10 CEMENTITIOUS MORTAR TANKING / DAMP PROOFING

To be read in conjunction with prelimaries / General conditions.

TYPES OF TANKING / DAMP PROOFING

130 PROPRIETARY CRYSTALLIZATION ACTIVE MORTAR

- Substrate:……..
- Concrete.
- Existing concrete.
- Manufacturer: Triton Systems, 3-5 Crayford Commercial Centre, Greyhound Way, Crayford. DA1 4HF.
- Tel: 01322 318830. Fax: 01322 524017.
- Email: info@tritonsystems.co.uk. Web: www.tritonsystems.co.uk.
-
- Product reference: Triton TT Super.
- Number of layers: Two.
- Thickness (overall): 2mm
- Coverage per coat (minimum): 1st coat: 0.75kg/m².
- 2nd coat: 1kg/m².
- Finish: Brushed.

350 MIXING

- Factory-made pre-blended constituents: Mix using methods recommended by Triton Systems.

360 COLD WEATHER

- General: Do not use frozen materials or apply coatings to frozen or frost-bound substrates.
- Air temperature requirements: Do not apply coatings when at or below 5ºC and falling, or below 3ºC and rising.
- Temperature of work: Maintain above 5ºC until coatings have hardened sufficiently.

PREPARING SUBSTRATES

410 SUITABILITY OF SUBSTRATES

- Preparation generally: To Triton Systems recommendations.
- Stability and soundness: Free from movement and loose or weak areas that will cause failure of tanking.
- Key: To achieve firm adhesion of tanking.
- Contamination: Free from previous coatings and contaminants including dirt, dust, efflorescence, mould, oil, paint and plaster.
- Cracks, porous patches and other defective areas subject to water pressure and liable to admit water: Control and seal using Triton Quick Set / Triton Fillet Seal.

430 TANKING INTEGRITY

- Penetrations for fixings, services, etc: Permitted for bolt fixings using Triton Systems recommended methods.

EXECUTION

510 APPLICATION GENERALLY

- Application methods and coating sequence: As recommended by Triton Systems to achieve a water resistant structure.

530 APPEARANCE OF TANKING

- Thin slurry coatings: Consistent and free from hollows, cracks and crazing. Suitable to receive specified finish.

550 CURING AND DRYING

- General: Prevent premature setting, uneven drying and cracking of each coat.
- Curing coatings: Prevent evaporation from surface.
- Curing period (minimum): 7 days.

560 PROTECTION

- Mechanical damage: Prevent impact and abrasion.
- Application of protective coatings / linings: After completion of curing.

TRITON SYSTEMS:

Tel: 01322 318830

J10 CEMENTITIOUS MORTAR TANKING / DAMP PROOFING

To be read in conjunction with prelimaries / General conditions.

TYPES OF TANKING / DAMP PROOFING

340 Sealants.

- Around service penetrations.
- Along Wall-to-Floor Abutments.
- Along Wall-to-Floor/Ceiling Abutments.
- Manufacturer: Triton Systems, 3-5 Crayford Commercial Centre, Greyhound Way, Crayford. DA1 4HF.
- Tel: 01322 318830. Fax: 01322 524017.
- Email: info@tritonsystems.co.uk. Web: www.tritonsystems.co.uk.

- Product reference: Triton Fillet Seal.
- Colour: Cement Grey.

350 Mixing.

- Factory made pre-blended constituents: Mix using methods recommended by the manufacturer.
- Mixes: Of uniform consistency and free from lumps.
- Free-fall drum mixers: Do not use.

360 COLD WEATHER

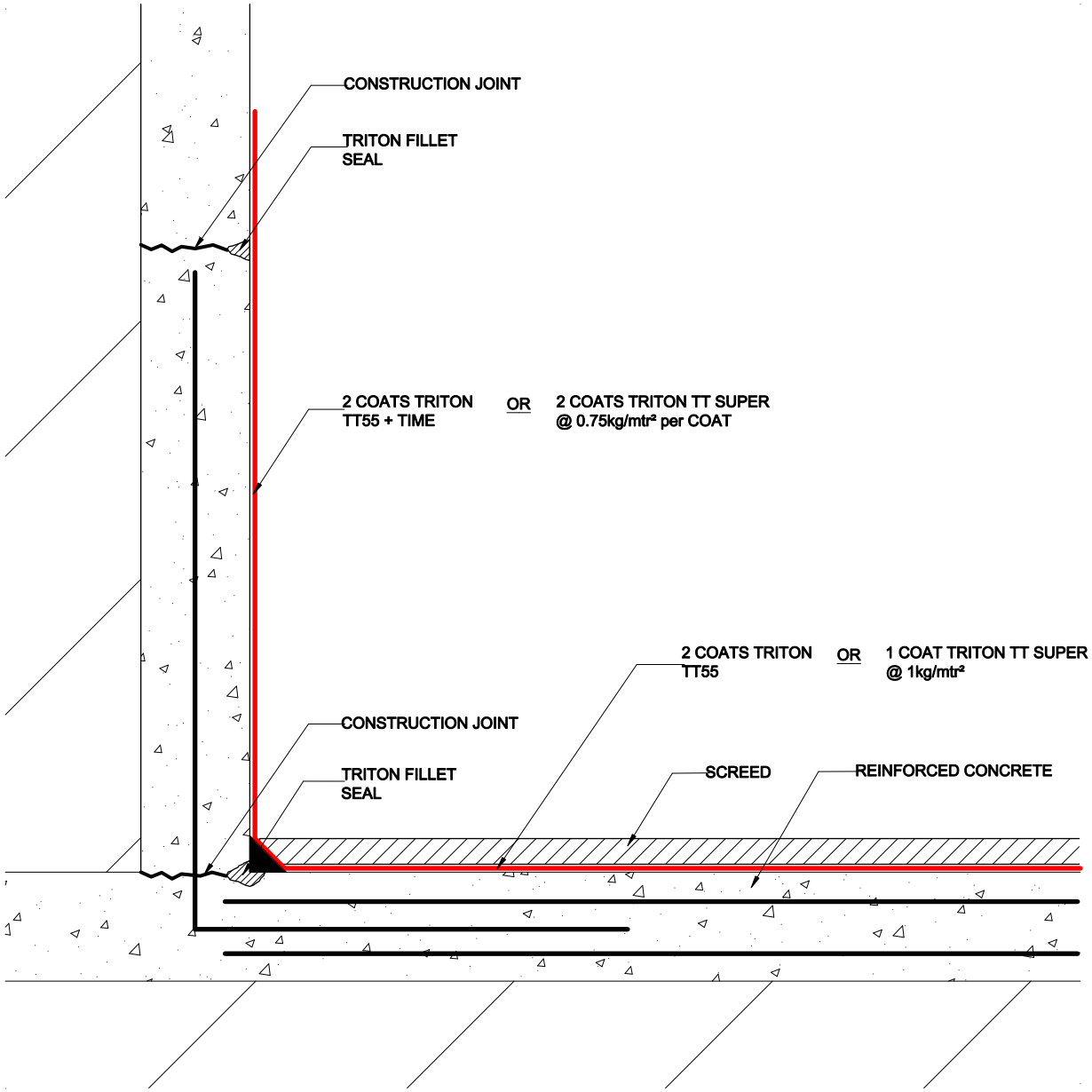
- General: Do not use frozen materials or apply coatings to frozen or frost-bound substrates.
- Air temperature requirements: Do not apply coatings when at or below 5ºC and falling.
- Temperature of work: Maintain above 5ºC until coatings have hardened

PREPARING SUBSTRATES

410A SUITABILITY OF SUBSTRATE

- Preparation generally: To Triton Systems recommendations.
- Contamination: Free from previous coatings and contaminants including laitance, dirt, dust, efflorescence, mould, oil, paint and plaster.
- Areas subject to water pressure and liable to admit water: Control and seal using Triton Quick Set.

New or Existing Concrete Construction



www.tritonsystems.co.uk

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Web: www.tritonsystems.co.uk

NOTE

ALL INSTALLATION TO BE CARRIED OUT IN STRICT ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. FOR FURTHER ASSISTANCE CONTACT TRITON TECHNICAL ON THE TELEPHONE NUMBER ABOVE.

REV.	MOD. BY	DATE	CHK. BY	APP. BY
2	JDF, CBS	20/7/07		

Alterations

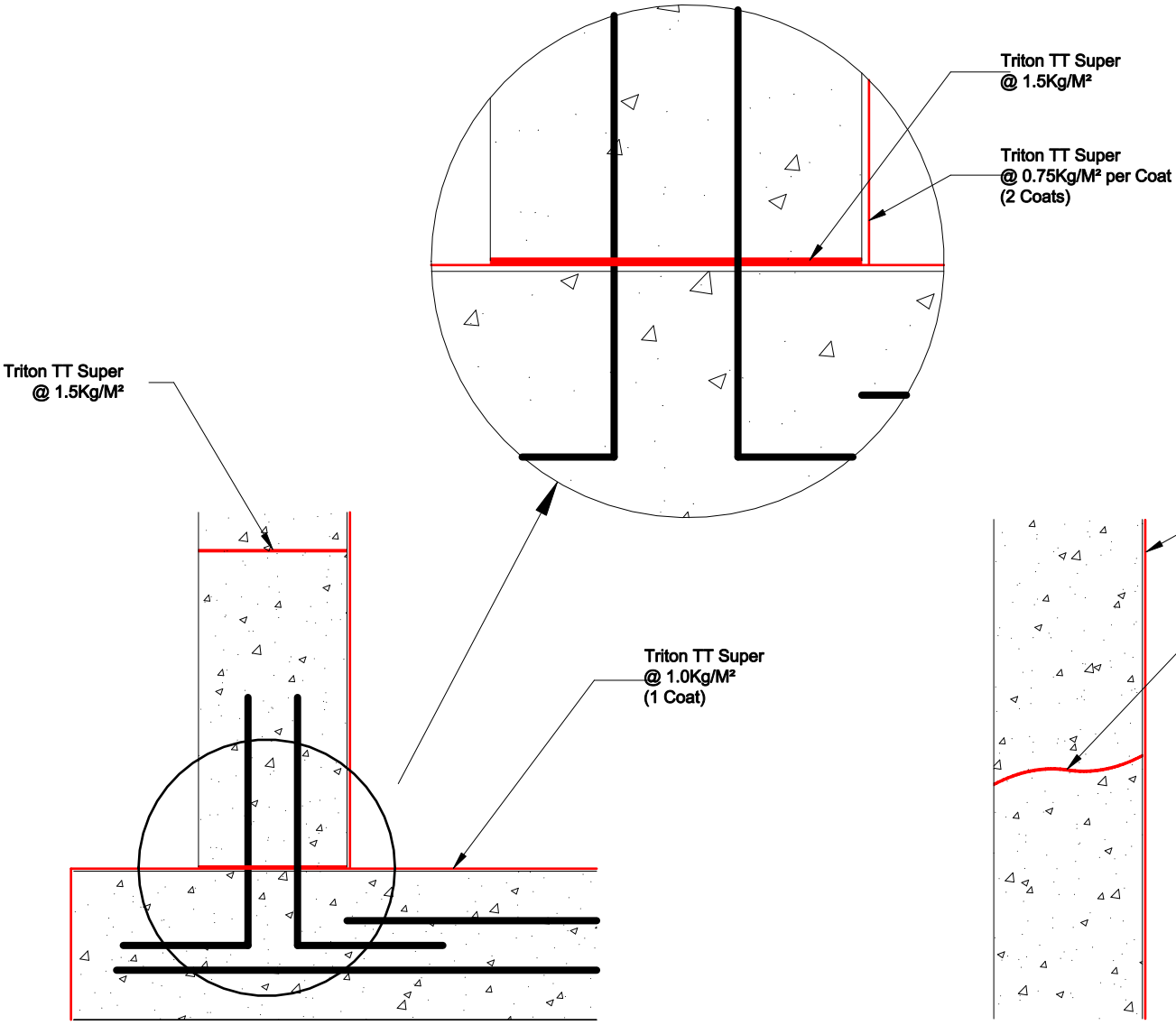
TITLE:

Concrete Waterproofing
Triton TT55/TT Super

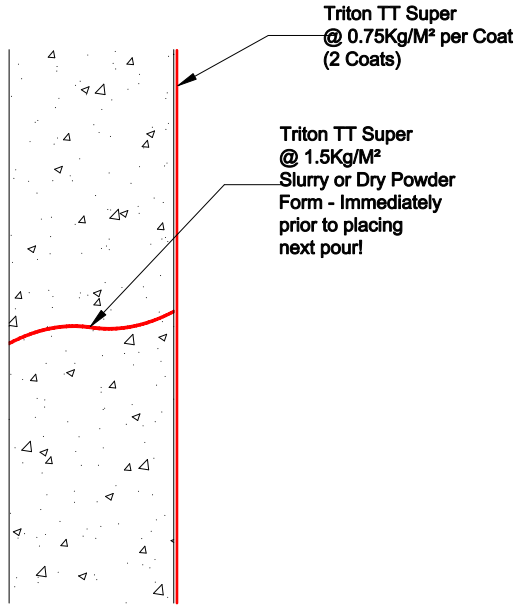
DRG. No. TWS-006-1(A) — REV 3

DRAWN	THF, CBS
DATE	11-01-07
SCALE	Not To Scale
CHECKED	
APPROVED	

System Files:
TWS-006-1(A).pdf
TWS-006-1(A).dwg



New Construction



Construction Joint

www.tritonsystems.co.uk

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REV.	MOD. BY	DATE	CHK. BY	APP. BY

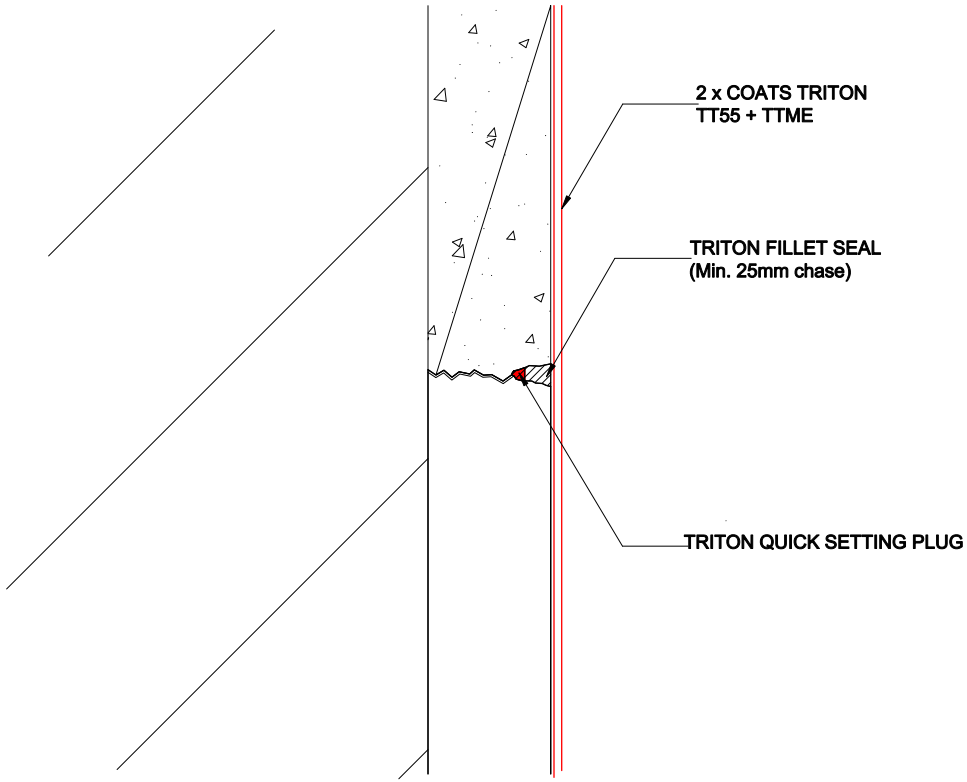
Alterations

TITLE: Concrete Waterproofing
New Construction
Using
Triton TT Super/Super White

DRG. No.	REV
TWS-007-1(A)	2

DRAWN	JDF, CBS
DATE	25-06-2007
SCALE (A3)	Not To Scale
CHECKED	
APPROVED	

System Files:
TWS-007-1(A).pdf
TWS-007-1(A).dwg



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Triton Systems

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REV.	MOD. BY	DATE	CHK. BY	APP. BY

Alterations

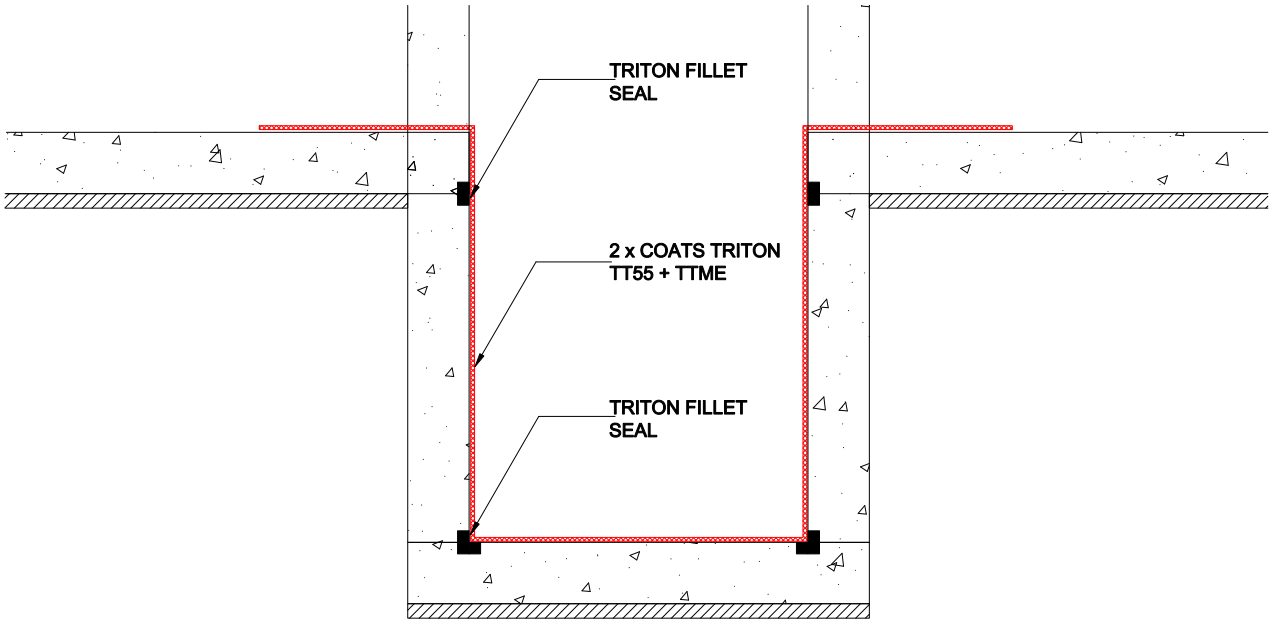
TITLE:

Waterproofing Construction Joint

DRG. No.	REV
TWS-008-1(A)	2

DRAWN	JDF, CBS
DATE	11-01-2007
SCALE (A3)	Not To Scale
CHECKED	
APPROVED	

System Files:
TWS-008-1(A).pdf
TWS-008-1(A).dwg



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REV.	MOD. BY	DATE	CHK. BY	APP. BY

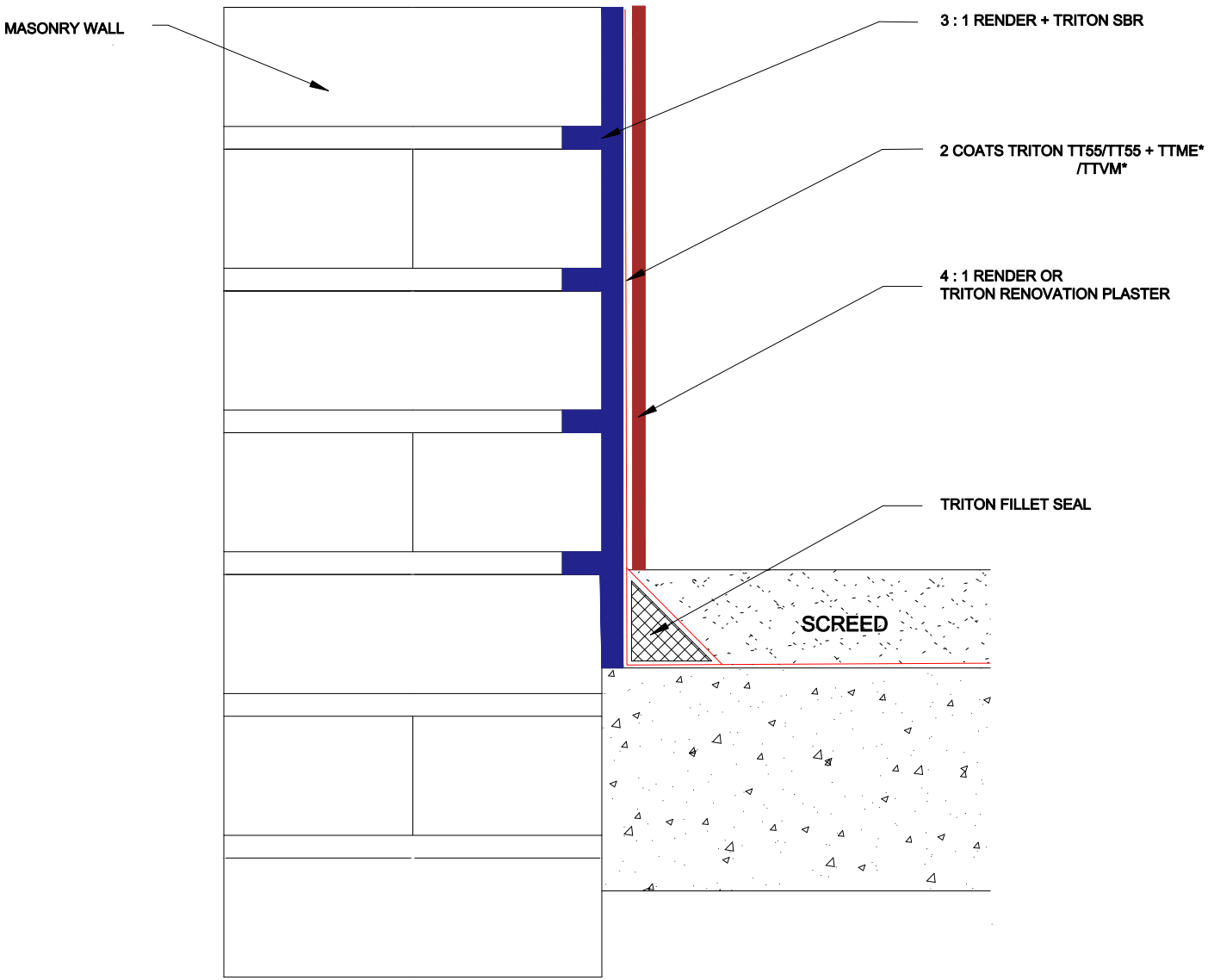
Alterations

TITLE:

Waterproofing Lift Pit

DRG. No.	TWS-009-1(A)	REV 2

DRAWN	JDF, CBS	System Files:
DATE	11-01-2007	
SCALE (A3)	Not To Scale	TWS-009-1(A).pdf TWS-009-1(A).dwg
CHECKED		
APPROVED		



PLEASE NOTE: For non-structural slabs, please consult Triton Technical Department.

* Where movement or vibration may be anticipated.

www.tritonsystems.co.uk

Triton Systems

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REV.	MOD. BY	DATE	CHK. BY	APP. BY

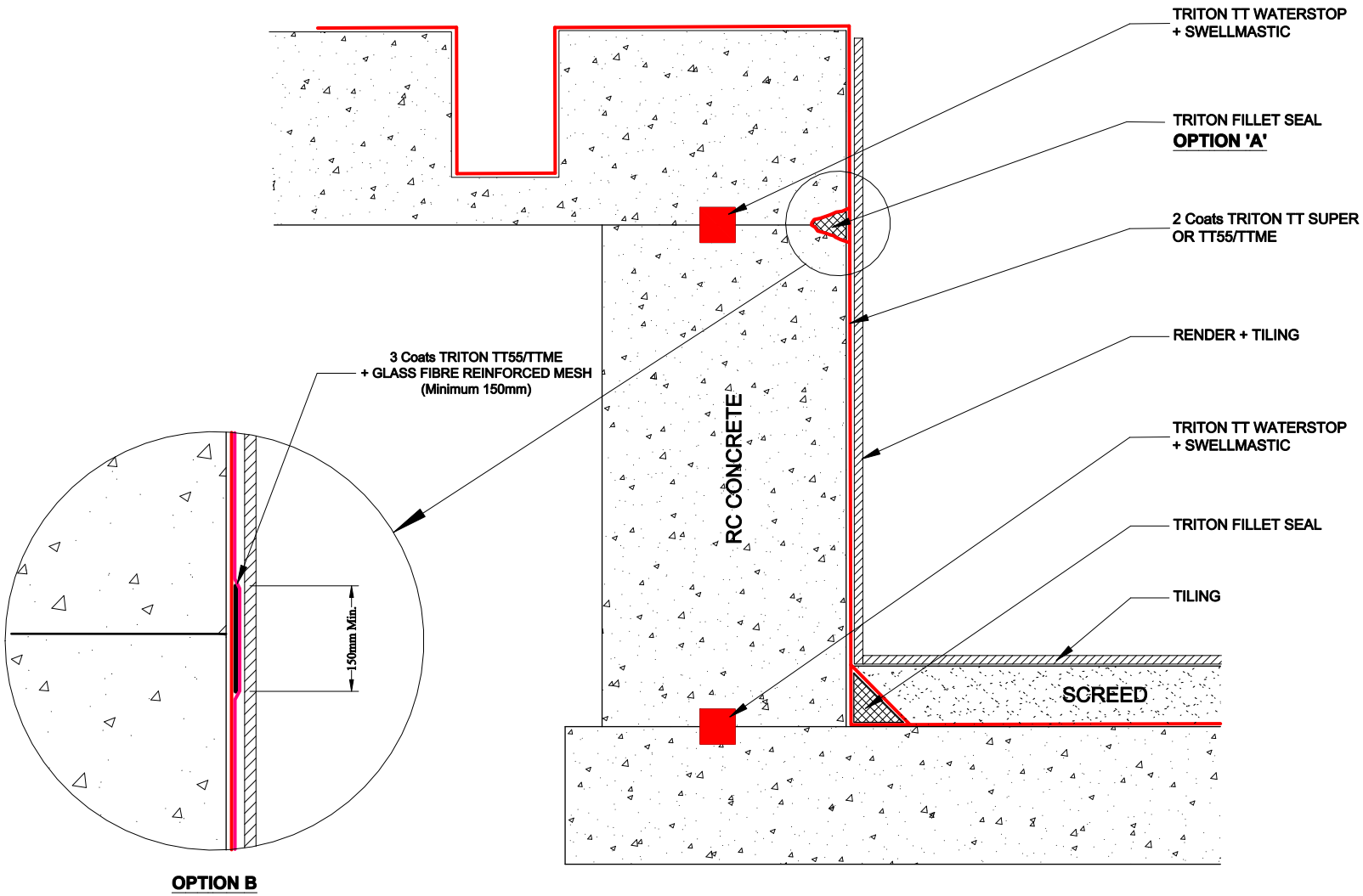
Alterations

TITLE:

Triton TT55 To Masonry Walls
+ Wall/Floor Detail

DRG. No.	REV
TWS-010-1(A)	2

DRAWN	JDF, CBS	System Files:
DATE	25th November 2009	TWS-010-1(A).pdf
SCALE (A3)	Not To Scale	TWS-010-1(A).dwg
CHECKED		
APPROVED		



OPTION B

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Triton Systems

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REV.	MOD. BY	DATE	CHK. BY	APP. BY

Alterations

TITLE:

Triton TT Super + TT55/TTME Waterproofing
To Concrete Swimming Pool

DRG. No.	REV
TWS-011-1(A)	2

DRAWN	JDF, CBS	System Files:
DATE	25th November 2009	TWS-011-1(A).pdf
SCALE (A3)	Not To Scale	TWS-011-1(A).dwg
CHECKED		
APPROVED		