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## Triton Systems

### Protective Coatings Data Pack

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## Triton TRIMOL 40

### WATER BASED EPOXY COATING

#### Description

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A two-pack water based epoxy coating for floors and walls. **Triton TRIMOL 40** is typically used to provide a damp proof membrane on walls and floors either on its own or as a wearing surface in a 'sandwich' construction between sand and cement renders.

#### Properties

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- |                       |  |
|-----------------------|--|
| • WATER BASED         | contains no solvent                                      |
| • LOW ODOUR           | easier to use in confined places                         |
| • WATER PROOF         | ideal for tanking, damp floors etc.                      |
| • HARDWEARING         | suitable as a durable floor or wall finish               |
| • CHEMICAL RESISTANCE | resists oil, petrol and mild chemicals when fully cured. |

#### Uses

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- |                          |  |
|--------------------------|--|
| ▪ DAMP PROOF MEMBRANE    | for walls and floors where original d.p.m has failed or is non-existent. |
| ▪ TANKING                | as part of 'sandwich' construction using sand and cement renders         |
| ▪ FLOOR AND WALL COATING | where a hardwearing and cleanable decorative finish is required.         |

**Triton TRIMOL 40** is suitable for application to most common building substrates including brick, concrete, stone and renders. Being water based **Triton TRIMOL 40** can be used on damp surfaces (but not running wet).

#### Technical Data

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#### Preparation

- The surfaces to be coated should be sound and free from dust, dirt, oil, grease, bitumen and surface water. Any loose material or latency should be removed by thorough needle gunning, grit blasting or wire brushing. Blow holes or irregularities should be filled using **Triton TRIMOL 23** and **Triton TRIMOL 15** patching mortar. When TANKING with **Triton TRIMOL 40**, form a fillet at the floor/wall junction to alleviate pressure and to ensure a smooth transition from vertical to horizontal.

#### Mixing

- Add the resin component to the hardener and mix using a paddle/whisk in a slow speed drill until a consistent mix is achieved. Alternatively a flat bar or piece of wood can be used in which case the mixing time should be at least 5 minutes.

#### Application

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##### GENERAL

- Application can be by brush or roller.



- Apply **Triton TRIMOL 40** to achieve complete coverage, do not apply too thickly or sagging and runs will occur.
- Apply one coat of **Triton TRIMOL 40 PRIMER** followed when touch dry by one of two coats **Triton TRIMOL 40 TOP COAT** (two coats are required where heavy wear or hydrostatic pressure is expected).

## BRICKWORK

- For best results apply a 4:1 sand:cement render (sharp sand) to the prepared brickwork. When cured the render can be coated with **PRIMER** and **TOPCOAT** as above.

## TANKING

- When using **Triton TRIMOL 40** as a tanking membrane (floors and walls combined) it is essential that an overlap of coats occurs at the wall to floor junction. A fillet as described earlier should be formed at the floor to wall junction. Overlaps of **Triton TRIMOL 40** should extend 225mm beyond the fillet e.g. When coating floors the coating should be applied over the fillet and 225mm up the wall.

## FINISHING

- For walls that are to receive render finishes the last coat of **Triton TRIMOL 40** should be blinded with dry builders sand whilst the coating is still tacky. When fully dry the render can be applied. Alternatively a priming coat consisting of **Triton SBR** mixed with cement and brushed onto the cured **Triton TRIMOL 40** will form a key for a subsequent render finish.

**NOTE:** **Triton TRIMOL 40** Primer and Top coat will become tack free more quickly if there is a good flow of air over coated surfaces. In confined and /or cold spaces the coatings will take longer to dry.

Thick applications of unpigmented **Triton TRIMOL 40** Primer and Topcoat between floor tiles or in mortar joints may retain a creamy appearance rather than clarify. If the appearance is important apply the coating thinly and build up the layer over extra coats, do not allow the coating to form into pools.

## Specification

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NBS Clause J30 10,130 Liquid applied damp proofing

## Coverage

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### PRIMER AND TOP COAT

- 4 – 6 square metres per kg
- Coverage will depend on surface porosity and texture.

## Curing

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### PRIMER AND TOP COAT

- Touch dry 6-8 hours
- Full Cure 7 days
- Maximum period between coats: 24 hours

## Packaging

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- Available in 1kg, 2.5kg and 5kg packs

## Cleaning

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- Uncured material can be washed off with water.

**Health & Safety** - For full information consult the relevant Material Safety Data Sheet.

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## Triton TRIPROOF AQ

### MASONRY WATER REPELLENT CONCENTRATE. DILUTES WITH WATER TO FORM A STABLE SOLUTIONS FOR USE ON MINERAL SUBSTRATES

Triton TRIPROOF AQ is a highly effective water repellent solution based on a blend of Silane and polysiloxane resins.

Triton TRIPROOF AQ is suitable for use over masonry, brickwork, concrete and renders. Superior performance is obtained on alkaline surfaces such as new renders and concrete.

#### Features

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- High alkaline resistance
- Excellent surface penetration
- Vapour permeable
- Colourless
- Dries to a tack-free finish
- UV resistant
- Water thinnable
- Easy removal of overspray

#### Description

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Triton TRIPROOF AQ is supplied as a concentrate for dilution with water before use. For most mineral substrates a dilution ratio of 1:9 is recommended. When treating dense concrete surfaces dilution ratios of 1:2 or 1:3 can be employed to maximise penetration and subsequent deposition of active water repellent. Treatment of surfaces with Triton TRIPROOF AQ reduces water absorption whilst maintaining the appearance of the area treated, also since the product does not block or clog pores and capillaries the vapour permeability of the substrate is maintained. Reducing water absorption prolongs the life of the substrate by reducing the damage caused by water:

##### FROST DAMAGE AND SPALLING

Frost damage occurs when pores and capillaries are more than 90% full of water. The expansion of frozen water exerts pressure into the substrate causing splitting, spalling and general disintegration.

##### SALT EFFLORESCENT

Constant evaporation and wetting with water causes salts to move nearer to the surface causing a white bloom or crystal growth at best or splitting and spalling at worst.

##### BIOLOGICAL GROWTH

Damp surfaces will support the growth of algae, moss, lichen and moulds. These organisms use acids to digest their food, which damages the underlying masonry over time.

##### CHEMICAL CORROSION

Water encourages the corrosion of metal fittings and fixtures, and of particular importance, cavity wall ties.

##### ATMOSPHERIC POLLUTION

Acid rain accelerates the weathering process by dissolving the binding matrix of the substrate.

#### Application

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- Triton TRIPROOF AQ should be applied by a coarse low-pressure spray or by flooding after dilution with water.
- Apply at least two coats, wet on wet, to maximise penetration into the substrate.
- Apply each subsequent coat when the substrate has absorbed the previous one and is no longer shiny wet.
- Surfaces to be treated should be dry.
- The ideal temperatures for application are between +10°C and +25°C.
- Application and dilution rates vary according to the porosity of the substrate to be treated



TRIPROOF AQ	Application rate	Dilution ratio
Concrete	0.25 L/m <sup>2</sup>	1:2 or 1:3
Render	0.5-1 L/m <sup>2</sup>	1:9
Brickwork	0.5-2 L/m <sup>2</sup>	1:9

In all cases it is advisable to conduct a small site trial to determine the most appropriate application rate and dilution ratio.

## Dilution

- Half fill mixing container with water, add **Triton TRIPROOF AQ** and stir.
- Add remaining water and stir thoroughly.
- Use within a week of mixing.

## Specification

NBS Clause J30 10, 130, M60, 18, 170 Liquid applied damp proofing

## General Information

Concentrate	
Density	1.0 g/cm <sup>3</sup>
Shelf Life	At least 6 months
Pack Size	2.5 Litre (makes 25 Litres)

## Related Products

- Triton OH 100 – Stone Strengthenener
- Triproof 290 – Solvent borne repellent solution

## Health & Safety

- See separate Material Safety Data Sheet.

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## Triton TRIPROOF 2

### MASONRY WATER REPELLENT SOLUTION FOR GENERAL PURPOSE USAGE

Triton TRIPROOF 2 is a highly effective water repellent solution based on a methyl silicone resin (Methyl polysiloxane).

Triton TRIPROOF 2 is suitable for use over neutral to mildly alkaline surfaces such as brickwork, masonry, existing renders and concrete. New render, fresh pointing and concrete (less than 6 months old) can be treated with Triton TRIPROOF 290, which is better able to resist the higher alkalinity of these materials.

#### Features

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- Excellent surface penetration
- Fast development of water repellent effect
- Vapour permeable
- Colourless
- UV resistant
- Dries to a tack-free finish

#### Description

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Triton TRIPROOF 2 is supplied as a ready to use solution of Methyl polysiloxane (silicone) resin dissolved in low odour white spirit. Treatment of surfaces with Triton TRIPROOF 2 reduces water absorption whilst maintaining the appearance of the area treated, since the product does not block or clog pores or capillaries the vapour permeability of the substrate is maintained. Reducing water absorption prolongs the life of the substrate by reducing the damage caused by water:

- FROST DAMAGE AND SPALLING
- SALT EFFLORESCENCE
- BIOLOGICAL GROWTH
- CHEMICAL CORROSION
- ATMOSPHERIC POLLUTION

#### Application

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Surfaces to be treated should be clean, dry and absorbent. If the substrate to be treated is wet, or has a non-porous surface, white staining or other marks may appear. A test area should be treated to check for this possibility before commencing full application particularly if there is any doubt as to the condition of the surface. Triton TRIPROOF 2 should be applied by a coarse low pressure spray or flooding. Always apply at least two coats, wet on wet, to maximise penetration into the substrate (up to 30 minutes between coats is acceptable in all but the warmest conditions). Apply each subsequent coat when the substrate has absorbed the previous one and is no longer shiny wet. Application rates vary according to the porosity of the substrate, with volumes ranging from 0.5L to 1.0L per square metre. Dense materials such as concrete will require less fluid than lower density materials such as brickwork. Site trial applications are useful to help determine the application volumes most suited to the substrate.

Avoid applying the product onto hot surfaces or in bright sunlight, mask all surfaces not needing treatment. When working from scaffolding use sheeting to reduce wind-borne spray, be aware of vehicles downwind of the worksite. Surfaces inadvertently treated should be cleaned immediately using white spirit. Do not apply to bitumen containing products or surfaces.



## General Information

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Resin content	8.0%
Flash point	40°C approx
Shelf life	12 months in unopened containers
Packaging	25 litre drums
Coverage	0.5 – 1.0 litre per square metre

## Specification

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NBS Clause J30 10, 130, M60, 18, 170 Liquid applied damp proofing

## Related products

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- TRIPROOF 290 For alkaline surfaces
- OH100 Stone Strengthener

## Health & Safety

- See separate Material Safety Data Sheet.

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## Triton TRIPROOF 290

### MASONRY WATER REPELLENT SOLUTION FOR GENERAL PURPOSE USAGE AND ON HIGHLY ALKALINE SURFACES (NEW POINTING, RENDERS, ETC.)

Triton TRIPROOF 290 is a highly effective water repellent solution based on Silane and Siloxane resin.

Triton TRIPROOF 290 is suitable for use over masonry, brickwork, concrete and renders. Superior performance compared to simple 'Silicone' treatments is obtained particularly on alkaline surfaces such as new renders or re-pointed brickwork.

#### Features

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- Excellent surface penetration
- High alkaline resistance
- Fast development of water repellent effect
- Effective even on damp substrates
- Vapour permeable
- Colourless, does not alter surface appearance
- Dries to a tack-free finish
- UV resistant

#### Description

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Triton TRIPROOF 290 is supplied as a ready to use solution of Silane and Siloxane resins dissolved in low odour white spirit. Treatment of surfaces with Triton TRIPROOF 290 reduces water absorption whilst maintaining the appearance of the area treated, since the product does not block or clog pores and capillaries the vapour permeability of the substrate is maintained. Reducing water absorption prolongs the life of the substrate by reducing the damage caused by the water:

##### FROST DAMAGE AND SPALLING

Frost damage occurs when pores and capillaries are more than 90% full of water. The expansion of frozen water exerts pressure into the substrate causing splitting, spalling and general disintegration.

##### SALT EFFLORESCENT

Constant evaporation and wetting with water causes salts to move nearer to the surface causing a white bloom or crystal growth at best or splitting and spalling at worst.

##### BIOLOGICAL GROWTH

Damp surfaces will support the growth of algae, moss, lichen and moulds. These organisms use acids to digest their food which damages the underlying masonry over time.

##### CHEMICAL CORROSION

Water encourages the corrosion of metal fittings and fixtures, and of particular importance, cavity wall ties.

##### ATMOSPHERIC POLLUTION

Acid rain accelerates the weathering process by dissolving the binding matrix of the substrate.

In all the above examples, reduction of water absorption by the use of a water repellent treatment like Triton TRIPROOF 290 will slow down or stop the effect for periods in excess of 10 years (when applied in sufficient quantity). Restoration of some surfaces is even possible using stone strengthening products such as Wacker OH prior to the use of Triton TRIPROOF 290. Triton TRIPROOF 290 conforms to the requirements of BS 6477: 1992 for substrates 1,3 and 4.



## Application

Triton TRIPROOF 290 should be applied by a coarse low pressure spray or flooding. Always apply at least two coats, wet on wet, to maximise penetration into the substrate (up to 30 minutes between coats is acceptable in all but the warmest conditions). Apply each subsequent coat when the substrate has absorbed the previous one and is no longer shiny wet. Application to slightly damp but surface dry looking substrates is acceptable. Application rates vary according to the porosity of the substrate with volumes ranging from 0.5L to 2L per square metre. Typically dense materials such as concrete will require lower volumes than less dense substrates such as brickwork. Site trial applications are useful to help determine the application volumes most suited to the substrate.

Avoid overspray and mask all surfaces not needing treatment. When working from scaffolding use sheeting to reduce wind-borne spray, be aware of vehicles downwind of the worksite. Surfaces inadvertently treated should be cleaned immediately using white spirit. Do not apply to bitumen containing products.

**NOTE:** Cold, damp, atmospheric conditions can cause a white 'bloom' to appear on surfaces shortly after treatment. Avoid applying Triton TRIPROOF 290 when such conditions exist, if in doubt apply the product to a test area or consult our technical department.

## General Information

Silane / Siloxane content	6.6%
Flash point	40°C approx
Shelf life	12 months in unopened containers
Packaging	25 litre drums
Coverage	0.5 – 2.0 litre per square metre

## Specification

NBS Clause J30 10, 130, M60, 18, 170 Liquid applied damp proofing

## Related products

- OH100 Stone Strengthener

## Health & Safety

- See separate Material Safety Data Sheet.

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