



*Chemical Manufacturing Co. Ltd.*

**Protective  
Coatings**

**DATA PACK**

# PROTECTIVE COATINGS

- TRIMOL 40
- TRIPROOF AQ
- TRIPROOF 2
- TRIPROOF 290



# TRIMOL 40

## WATER BASED EPOXY COATING

**DESCRIPTION** A two pack water based epoxy coating for floors and walls. 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

WATER BASED -	contains no solvent
LOW ODOUR -	easier to use in confined spaces
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

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.

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

### TECHNICAL DATA

**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 TRIMOL 23 and TRIMOL 15 patching mortar. When TANKING with 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 - GENERAL

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

### APPLICATION - BRICKWORK

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

### **APPLICATION** - TANKING

When using 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 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.

### **APPLICATION** - FINISHING

For walls that are to receive render finishes the last coat of 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 TRIMOL 40 will form a key for a subsequent render finish.

**NOTE:** 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 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.

### **COVERAGE** PRIMER AND TOP COAT:

4 - 6 square metre per kg

Coverage will depend on surface porosity and texture.

### **CURING** PRIMER AND TOP COAT:

Touch dry 6-8 hours

Full Cure 7 days

Maximum period between coats: 24 hours

Some surface abrasion may be necessary to ensure intercoat adhesion if coat on coat time is longer than 24 hours.

All cure times given are for room temperature (18°C) and average humidity.

**PACKAGING** Available in 1kg, 2.5kg and 5kg packs

**CLEANING** Uncured material can be washed off with water.

The information provided in this product data sheet, is given in good faith, and is, to the best of our knowledge, true and accurate. However, recommendations and suggestions are made without prior guarantee as conditions of use, and labour involved, are beyond our control.

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# TRIPROOF AQ

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

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

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

## DESCRIPTION

**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 **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 EFFLORESCENCE**

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 with 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**

**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 temperature 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**

	<b>Application rate</b>	<b>Dilution ratio</b>
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 **TRIPROOF AQ** and stir. Add remaining water and stir thoroughly. Use within a week of mixing.

## **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 strengthener  
Triproof 290 - solvent borne water repellent solution.

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# TRIPROOF 2

## MASONRY WATER REPELLENT SOLUTION FOR GENERAL PURPOSE USAGE.

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

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

### FEATURES

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

**DESCRIPTION** **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 **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** 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. 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**

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

## **RELATED PRODUCTS**

TRIPROOF 290 – for alkaline surfaces.  
OH 100 – Stone Strengthener

The information given on this data sheet is given in good faith and is based upon knowledge and experience of the materials used. However, since the application of the product is beyond the control of Triton Chemical Manufacturing Company. The Company cannot accept responsibility for any loss or damage resulting from the use of the product outside the scope of the intended use and precautions set out in the data sheet.

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REF: 06/00 TRIPROOF 2



# **TRIPROOF 290**

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

**TRIPROOF 290** is a highly effective water repellent solution based on a blend of Silane and Siloxane resins.

**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**

- 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**

**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 **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 EFFLORESCENCE**

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 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 TRIPROOF 290. TRIPROOF 290 conforms to the requirements of BS 6477: 1992 for substrates 1,3 and 4.

## **APPLICATION**

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 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 - 2.0Litres per square metre

## **RELATED PRODUCTS**

OH 100 - stone strengthener

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