

# Nitoproof RS

The elastomeric decorative waterproofing for the protection, repair and restoration of all types of roofs, gutters and structure

## Use

Nitoproof RS is an all round waterproofing and weatherproofing membrane for old or new roofs, gutters and structures to most construction materials, including concrete, asbestos, cement, corrugated iron, felt, timber, bitumens etc.

## Advantages

- Easily applied by brush, roller or airless spray
  - on most type of surface
  - on all external and internal walls
  - on a large or small roof areas
  - on joints and seams
  - on gutters and glazing bars
- Offer total resistance against the damaging effect from the sun infra-red and ultra violet rays
- Exhibit outstanding elasticity to allow for any roof movement
- Offer excellent resistance to wide range of chemicals and pollutants, will not support mould growth
- Has a microporous skin allowing a substrate to dry out naturally
- Better than your ordinary acrylic material, formulated without plasticisers, used high performance modified elastomeric acrylic polymers, no cheap adducts or extenders
- Unaffected by rain or total immersion conditions
- Retains its flexibility over a wide temperature range

## Description

Nitoproof RS provides long-term protection on all type of surfaces. A product of many years of testing and field use. Its total weather resistance - to sun, rain, wind or frost makes it equally effective on most building surfaces. Its micro-porosity which, keeps water out but allows water vapour to escape through it, allows structures to dry out naturally after treatment.

Nitoproof RS is based on high performance modified elastomeric acrylic polymers thus providing prolonged durability and excellent weather resistance and its latex properties completely resists ozonolysis and other oxidative degradation. Colours incorporated are oxide pigments, thereby fully resistant to ultra violet light with no deterioration especially in tropical conditions.

## Properties

Tested to American Standard ASTM D 412

**Density:** approx. 1.2 ± 0.2 kg/ltr

**Solid content:** approx. 57 %

**PH Value:** approx. 9.5

**Ultimate tensile strength:** 2 N/mm<sup>2</sup>

**Ultimate elongation:** >680 %

**Resistance to aging:** Good

**Resistance to UV light:** Good

## Instruction for use

### Surface preparation

<b>1. Steel</b>	Abrasive blast to A.S. 1627.4 Class minimum mechanical abrading and derusting
<b>2. Timber</b>	Surface must be clean, smooth, dry and free of oily residue.
<b>3. Concrete</b>	Allow to cure for minimum of 28 days. Remove laitance and any trade wastes by acid etching, abrading through light blasting or water jetting. Allow the concrete substrate to dry before commencing <b>Nitoproof RS application.</b>
<b>4. Masonry</b>	Surface must be clean, dry and free of oil or grease. Make good any surface defects with Fosroc range of repair products. For smaller cracks repair, fill it with Nitoproof RS.
<b>5. Pre-painted surface</b>	Scrape off flaking paint and any loose material. Sandblast gloss painted surfaces to improve adhesion. Touch up expose ferrous metal surface with <b>Nitoprime Zincrich</b> rust primer.

### Consolidation of substrate

The substrate shall be primed according to manufacturer's recommendation.

**Friable Concrete Substrate:** 1:1 dilution with water

**More Absorbent Substrate:** used neat without dilution

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It shall be primed by brushing or rolling onto the surface with **Nitoproof RS** at a spread rate of 6 square metre per litres and allow to dry.

The priming coat shall be extended at least 240 mm up to all parapet walls.

On sound substrate no priming is required, such as on metal decking.

## Traffic RC Roof Application

**Step 1:** Prime the surface as described under Consolidation of Substrate and allow it to dry.

**Step 2:** Apply onto the dried primer a layer of **Nitoproof RS**, and whilst it is still tacky, embed Fosroc reinforcing fibre on top of it and allow to dry.

**Step 3:** Next apply a further 2 additional coats of **Nitoproof RS** at a spread rate of 3 m<sup>2</sup> per litre, allowing 2 to 4 hours drying time between coats to complete the waterproofing system.

## Non Trafficable RC Roof and Wall Application (on bare concrete and plaster finish)

**Step 1:** Prime surface as described under Consolidation of Substrate and allow it to dry.

**Step 2:** Next apply a further 2 additional coats of **Nitoproof RS** at a spread rate of 3 m<sup>2</sup> per litre, allowing 2 to 4 hours drying time between coats to complete the waterproofing system.

## Pre-Painted Metal Application

**Step 1:** Clean the substrate as described under surface preparation.

**Step 2:** No priming is necessary. However onto corroded area, it has to be scraped and sanded off, and prime with **Nitoprime Zincrich** rust primer. Apply 2 coats of **Nitoproof RS** onto the metal surface, allowing each coat to dry before proceeding the next.

## Joints

For bridging over expansion joints, overlap joints, umbrella nail, etc., incorporate Fosroc reinforcing fibre.

## Clean up

Clean all equipment immediately after use with clean water.

## Estimating

### Supply

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<b>Nitoproof RS :</b>	20 litre pail
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<b>Nitoprime Zincrich :</b>	1 litre tin
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### Coverage

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<b>Nitoproof RS :</b>	~600 microns for 3 coats (at 0.35ltr/m <sup>2</sup> /coat)
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	~ 800 microns for reinforced system (4 coats)
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<b>Nitoprime Zincrich :</b>	3 m <sup>2</sup> per litre per coat
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The coverage figures given are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced.

## Precautions

### Health and safety

Non flammable. Avoid contact with skin and eyes. Wear protective gloves and eye protection when making or using.

### Storage

Material should be stored at temperatures between 15°C and 40°C

### Shelf Life

12 months when sealed and stored within recommended temperatures.

### Supply

Contact your local Fosroc office or representative.

### Technical service

Fosroc provides a Technical Advisory Service supported by a team of professionals in the field.

Please contact the Fosroc Technical Department for application onto unfamiliar substrates.

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## Additional information

**Fosroc** manufactures a wide range of products specifically designed for the repair and refurbishment of damaged reinforced concrete. This includes hand-placed and spray grade repair mortars, fluid micro - concretes, chemical - resistant epoxy mortars and a comprehensive package of protective coatings. In addition, a wide range of complementary products is available. This includes joint sealants, waterproofing membranes, grouting, anchoring and specialised flooring materials.

**Fosroc** have also produced several education training videos which provide more detail about the mechanisms which cause corrosion with reinforced concrete structures and the solutions which are available to arrest or retard these destructive mechanisms. Further information is available from the publication : 'Concrete Repair and Protection - The System Approach' available in seven language formats.

For further information about products, training videos or publications, contact the local Fosroc office.

Nitoproof RS is the trademark of Fosroc International Limited



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