

# Brushbond Roofguard Premium



constructive solutions

**One-component cold - applied acrylic based modified polyurethane hybrid elastomeric coating used as Heat Reflective waterproofing coating for roof and terraces and also can be used as under tile waterproofing coating for wet areas**

## Uses

Brushbond Roofguard Premium is a roller, brush, squeegee or sprayapplied, one-component waterproofing membrane based on modified polyurethane hybrid technology. It is acrylic based, easy to use, flexible and UV resistant. It is especially suited for exposed roof applications and under tile waterproofing for bathrooms.

For exposed roof waterproofing applications in both new construction and refurbishment projects.

Typical applications include:

- Serviced roofs
- Flat or sloping roofs
- Brick Bat Coba surface finish
- China mosaic tile roof
- Cement mortar screed
- Under tile waterproofing for bathrooms.

## Advantages

- One-component, ready to use
- UV resistant and colour stable
- Seamless
- Flexible and crack bridging
- Environment friendly - low VOC
- Breathable coating
- Resistant to mould growth
- Cool roof coating
- Reduces surface temperature upto 10°C in peak summer
- Excellent adhesion with tile adhesive for direct application of tiles on the coating.

## Specification

Where mentioned in the contract drawings, the cool coating cum waterproofing coating shall be Brushbond Roofguard Premium, one-component, flexible, resistant, colour stable acrylic modified polyurethane hybrid coating system. Brushbond Roofguard Premium should be applied to achieve a minimum 0.5mm dft.

## Typical Physical properties at 23°C

Solids by Volume :	50%
Density :	1.30 ± 0.05% g/cc
Tensile strength ASTM D412	>2 MPa
Elongation, ASTM D412	300%
Hardness, ASTM D2240	75 Shore A
Tear strength, ASTM D624	13N/mm
Adhesion to substrate with Primer, ASTM D4541	2 MPa concrete failure
Crack bridging, static / dynamic, ASTM C836	2mm
UV resistance/colour stability 1000 hrs qUVA, ASTM D4587	Pass
Service temperature	-10°C to + 60°C
Solar Reflective Index	≥100

## Clarification of property values

The typical physical properties given above are derived from results derived from laboratory testing in controlled conditions. Field-applied samples may vary dependent on circumstances beyond our control such as the application temperatures and weather conditions, film thickness, test and curing conditions and age of samples tested.

## Instructions for use

### Surface preparation

All surfaces must be clean and free from debris, loose or flaking material, standing water, paint, oil, rust, grease, organic growth and other contaminants.

Concrete surfaces must be free from laitance and any traces of formwork release oils and curing compounds. Grinding recommended as an effective method of surface preparation and to provide a suitable key for the Brushbond Roofguard Premium coating. Any surface irregularities must be filled with Fosroc Nitomortar FC or other appropriate product from the Fosroc Renderoc or Nitomortar range prior to coating. Contact Fosroc for advice.

### Movement joints

All expansion and movement joints should be primed and sealed with a suitable joint sealant e.g Nitoseal PU50. When sealant is dry, Nitoseal Debonding Tape should be applied over the joint. One primer coat of Brushbond Roofguard Premium should be applied to the substrate to a distance 150mm either side of the tape, and allowed to dry. 0.5 mm thick wet coat of Brushbond Roofguard Premium should be applied over the joint area, extending 150mm beyond each side of the tape, and while wet, reinforced using Geotextile and allowed to dry. A second 0.5mm thick wet coat should then be applied.

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## Treatment of Cracks

All shrinkage and non-moving structural cracks should be pre-treated with a combination of Nitoband series.

## Coving and bends

All floor to wall angles / bends must have a Nitoband TPE.

One primer coat of Brushbond Roofguard Premium should be applied and allowed to dry, then a 0.5mm joint wet coat applied, extending 150mm either side of the coving, and while still wet, reinforced using Nitoband TPE Tape and allowed to dry. A second 0.5mm wet coat should be applied.

All the internal and external corners should be treated with Nitoband Corners and Pipe penetrations can be treated with Nitoband Collers.

All pretreatment coats must be allowed to dry before the main application of Brushbond Roofguard Premium.

## Pre-Application Mixing

Brushbond Roofguard Premium is a single component material. Stir using slow speed drill for 1-2 minutes to achieve a homogenous consistency prior to application. Avoid air entrapment whilst stirring, do not over-stir. Allow to settle for 1-2 minutes before use.

## Priming

It is recommended that new cementitious and concrete substrates has to be primed with Nitoproof WB primer.

Nitoproof WB Primer is a two component product and must be mixed & applied in order to perform as specified. Transfer base and the hardener to a suitable fresh container and mix thoroughly with a slow speed mixer for 2 -3 minutes which makes the mix as a milky white paste . Add double the quantity of clean water by volume (4ltr water to 2ltr pack size, 12 liter water to 6ltr pack size) to the mix gradually under mixing which makes the mix as low viscous milky white liquid. Apply using a roller or brush.

## Application

Brushbond Roofguard Premium can be applied in two coats by roller or brush or squeegee or by airless spray at a wet film thickness of 0.5 mm per coat. This is the recommended technique for applications onto vertical surfaces. Allow the first coat to dry (normally 1-5 hours depending on the climatic conditions), then proceed with the application of the second coat. The second coat of Brushbond Roofguard Premium should be applied at 90° to the first, ensuring that a final continuous coating with a minimum total applied wet film thickness of 1.mm is achieved, resulting in a total dry film thickness of 0.5mm.

## Flood Test

The Brushbond Roofguard Premium membrane must be cured for at least 72 hours prior to a flood test. Flood to a minimum of 50mm depth of water for 24 hours. Drains must be plugged and barriers put in place to contain the water.

## Estimating

### Supply and coverage

Brushbond Roofguard Premium	20 litre & 4 ltr pack
Coverage @1mm wft	20m <sup>2</sup> per 20 litre pail (0.5mm dft)*
Primer	Nitoproof WB Primer

\* Thickness varies depends on the site conditions.

## Limitations

Do not apply Brushbond Roofguard Premium if the substrate temperature is <3°C above dew point.

Do not apply Brushbond Roofguard Premium if the concrete moisture content is >6% of if rising moisture (negative pressure) is evident by polyethylene sheet test, or anticipated during service.

Do not apply Brushbond Roofguard Premium if the ambient or substrate temperature is <5°C, or when ambient relative humidity is >85%.

Do not apply Brushbond Roofguard Premium, if precipitation is anticipated within the walkable time of the product. This can be up to 24 hours depending on actual conditions.

Do not apply Brushbond Roofguard Premium if the substrate is confirmed or considered likely to be surface saturated. The substrate must be sufficiently dry at the surface to allow some penetration of primer.

Brushbond Roofguard Premium is not suitable for permanent pedestrian traffic.

Brushbond Roofguard Premium should not be subjected to permanent static point loading. In this case protection must be in place, see Curing and Protection section.

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Brushbond Roofguard Premium should not be subject to permanent immersion or permanent ponding water.

Brushbond Roofguard Premium should not be subject to chemicals or oils spillage, any such contamination should be removed immediately and repairs carried out if necessary.

When used to waterproof a ballasted roof, the Brushbond Roofguard Premium must be covered by a min 140g/m<sup>2</sup> non-woven geotextile prior to placing of ballast.

Brushbond Roofguard Premium is not suitable for permanent contact with soil used for growing flora, e.g. inside planter boxes, for roof gardens.

## Storage

Brushbond Roofguard Premium has a shelf life of 12 months if kept in a dry, air conditioned store between +5°C and +35°C in its original unopened containers. A reduction in shelf life can be expected if stored above +35°C. Product is water based and must be protected from freezing conditions.

## Precautions

### Health and Safety

For all Fosroc products, consult the appropriate Health and Safety Datasheet.

## Additional information

Fosroc manufactures a wide range of complementary products which include :

- Waterproofing membranes & waterstops
- Joint sealants & filler boards
- Cementitious & epoxy grouts
- Specialised flooring materials
- Concrete repair mortars
- Protective coatings
- Surface treatments
- Concrete Admixtures
- Cement Grinding Aids



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### Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

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