Section A : Health, Safety and Environment

A1. Personal safety requirements:

1.1 Application should be in accordance with local / site regulations.
1.2 Appropriate PPE should be worn. Consult product Safety Data Sheets for further information.

A2. Cleaning:

Clean spills as they occur, and equipment as necessary, using Fosroc Equipment Cleaner.

A3 Disposal

Disposal must be made according to official regulations. See product Safety Data Sheet for further information.

A4 Material

Fosroc Nitoproof 800 products consist of 6 components:

Fosroc Nitoproof UR FS primer - Polyurethane Hardener.
Fosroc Nitoproof UR FS primer - Polyurethane Base.
Fosroc Nitoproof 800 Membrane - Polyurethane Hardener.
Fosroc Nitoproof 800 Membrane - Polyurethane Base.
Fosroc Nitoproof UVR Topcoat - Polyurethane Hardener.
Fosroc Nitoproof UVR Topcoat - Polyurethane Base.

Section B : General

B1. Environmental Conditions:
It is recommended that a project log, with several readings per day, recording air and surface temperatures, humidity and dew point is maintained.

i) Air temperature +5 to +40ºC.

Surface Temperature +5 to +40ºC.

Important Note: for applications where the ambient or surface temperature is outside this range contact Fosroc for project-specific advice.

ii) Weather Conditions; The relative humidity must be ≤ 90% and surface temperature must be at least 3ºC above the dew point.

B2. Concrete Substrate Condition:
Conditions below must be met, for application work to be carried out.

i) The concrete must have achieved 80% of its intended physical properties.

ii) The concrete must be clean and free from laitance oil, grease, dust etc.

iii) Concrete relative humidity (as measured by the "Vaisala test") must be ≤ 75%.

B3. Equipment:

The following list of equipment should be adopted as a minimum requirement.

Preparation	: Proprietary blasting equipment.
Mixing Nitoproof 800	: Slow speed electric stirrer with appropriate paddle.
Priming	: Slow speed electric stirrer with appropriate paddle**.**
Primer application	: Squeegee and or Short hair roller.
Membrane application	: Notched trowel, Squeegee and or Short hair roller.

B4. Application Details:

A record should be maintained recording:

- Substrate condition.
- Preparation method and repair work.
- Batch numbers of product used.
- Air and substrate temperature.
- Humidity.
- Amount of product used/surface area covered.
- Wet film thickness readings.

B5. Storage of products:

Store in original packaging, in dry warehouse conditions and at +10°C to +35°C.

Section C : Application Method

C1. System:

Filler/Blowhole repair	**: Fosroc Nitomortar FC.**
Primer	**: Fosroc Nitoprime UR FS.**
Coverage	: 6 m^2 to 16m^2 per 2kg pack on concrete dependant on surface texture and porosity.
Sand Broadcast	**: Fosroc Nitoflor FC anti-slip grains.**
Coverage	: 25m^2 per 25kg bag.
Membrane	**:Fosroc Nitoproof 800 Membrane.**
Coverage	: 9m^2 per 10kg pack.
Topcoat	**:Fosroc Nitoproof UVR Topcoat.**
Coverage	: 22m^2 per 10kg pack.

Coverage is a guide only and subject to substrate profile and porosity.

C2. Surface Preparation.

Concrete.

2.1.1 Dry abrasive blasting, wet abrasive blasting, vacuum-assisted abrasive blasting, and centrifugal shot blasting, as described in ASTM D4259, must be used to remove contaminants, laitance, and weak concrete, to expose blow holes, and to produce a sound concrete surface with adequate profile and surface porosity.

2.1.2 All blow holes and minor surface imperfections shall be filled with Fosroc Nitomortar FC. Furthermore if there is any doubts about the porosity of the concrete apply Fosroc Nitomortar FC. See separate product data sheet. Fosroc Nitomortar FC should be allowed to cure for 12 –18 hours at 20°C, lightly abrade the surface and wipe with a cloth lightly wetted with Fosroc Equipment Cleaner prior to priming.

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

2.1.4 Static cracks shall be chased to a 5mm x 5mm groove and filled using Fosroc Nitomortar FC.

2.1.5 Live cracks should be treated as movement joints and sealed with an appropriate sealant after application of the coating.

Steel.

Steel condition.

2.2.1 The steel must be of first class quality and must not have been allowed to rust more than corresponding to grade B of BS EN ISO 8501-1:2007. Any laminations must be removed.

Steel preparation.

2.2.2 Blast clean to Sa 2½. (BS EN ISO 8501-1:2007). Roughness: using abrasives suitable to achieve a coarse surface of Grade Medium G (50-85µm, Ry5) (BS EN ISO 8503-2:2001).

C3. Priming:

3.1.1 Following correct preparation, the substrate should be primed using Fosroc Nitoprime UR FS. Alternatively if a damp concrete surface is encountered prime with one coat of Fosroc Nitoflor DPM in lieu of Fosroc Nitoprime UR FS. Refer to separate Fosroc data sheet for full application instructions on this alternative primer.

3.1.2 For concrete, suggested application rate is 3 - 8 m^2 per kg dependant on concrete porosity. On very porous concrete higher application rates may be required. Consult Fosroc for further recommendations.

3.1.3 Add the entire content of the Hardener into the Base container and mix thoroughly with a slow speed electric stirrer fitted with an appropriate paddle for a minimum of 3 minutes or until homogeneous. Do not dilute primer.

3.1.4 Apply by short hair roller or squeegee to a uniform thickness.

3.1.5 Immediately broadcast Fosroc Nitoflor FC anti-slip grains onto the uncured primer at a consistent coverage of 1kg per m^2. Excess sand should be removed prior to application of the Fosroc Nitoproof 800 Membrane by vacuum or brush.

3.1.6 The primer must be allowed to become touch-dry prior to application of Fosroc Nitoproof 800 Membrane typically 4 hours at 20°C. If sand blinding is not used and the primer has been left for greater than 48 hours then the primer should be removed and the area re-primed.

3.1.7 Working life of Fosroc Nitoprime UR FS: 20 to 30 minutes at 20°C.

C4. Application of Fosroc Nitoproof 800 Membrane.

4.1.1 The suggested application rate is 0.9m^2 per kg.

4.1.2 Add the entire content of the Hardener into the Base container and thoroughly mix with a slow speed electric stirrer fitted appropriate paddle for a minimum of 3 minutes or until homogeneous.

4.1.3 Apply immediately on to the substrate to a wet film thickness of minimum 1.1mm using a notched trowel or squeegee back rolling with a short haired or spiked roller is advisable to ensure even coverage.

4.1.4 An optional mesh can be incorporated by laying Fosroc LM mesh reinforcing fabric on top of the wet membrane.

4.1.5 For a light skid resistant finish. Immediately apply Fosroc Nitoflor FC anti-slip grains by full scatter (broadcast) at a consistent coverage of 1kg per m^2. Excess sand should be removed prior to application of the Fosroc Nitoproof 800 Membrane by vacuum or brush.

4.1.6 Allow to cure for 4 hours at 20°C. If the membrane has been applied for greater than 48 hours then contact Fosroc for advice.

C5. Application of Fosroc Nitoproof UVR Topcoat:

5.1.1 The suggested application rate is 2.2m^2 per kg.

5.1.2 Add the entire content of the Hardener into the Base container and thoroughly mix with a slow speed electric stirrer fitted with the appropriate paddle for a minimum of 3 minutes or until homogeneous.

5.1.3 Apply immediately on to the substrate to a wet film thickness of minimum 0.3mm using a medium hard rubber squeegee back rolling with a short roller leaving a uniform finish.

5.1.4 Allow to cure for 8 hours at 20°C. The Fosroc UVR Topcoat may fade slightly over time depending on UV levels and heat.

Section D : Approval and variations

This method statement is offered by Fosroc as a 'standard proposal' for the application of Fosroc Nitoproof 800. Any variation to the above system must be approved by Fosroc in writing.
Where alternative methods are to be used, these must be submitted to Fosroc for approval, in writing, prior to commencement of any work. Fosroc will not accept responsibility or liability for variations to the above method statement under any other condition.