



Fosroc Nukote BGII*

Two component, brush grade, waterproof and protective coating based on pure polyurea technology

Uses

Waterproof and protective coating for concrete in above and below ground applications, plywood and metal surfaces, where the convenience of hand applied, brush grade material is preferred. Typical applications include:

- Coating expansion joints
- Coating green concrete
- Difficult areas for spraying on roofs & basements

Advantages

- Interior or exterior applications
- Seamless and monolithic
- Low temperature flexibility
- Meets USDA criteria
- Good chemical resistance

Description

Fosroc Nukote BGII is a two part, flexible, pure polyurea coating. It displays excellent chemical resistance, thermal stability and UV resistance, thereby providing 100% colour stability.

Fosroc Nukote BGII is available in Grey colour. Custom colours are available upon request.

Specification

Where mentioned in the contract drawings, the interior and exterior coating shall be Fosroc Nukote BGII; a flexible, pure polyurea coating system, providing good chemical resistance and complying to USDA criteria. It shall also meet values stated under section "Properties".

Properties

Physical properties @ 24°C

Solids by Volume	: 95%
Volatile Organic Compounds	: 55 g/l
Mix Ratio	: 1A: 1B
Tack free time	: 4-6hours
Tensile Strength	
ASTM D-412	: 10MPa
Elongation @ 25 °C	
ASTM D-412	: 1200%
Hardness (Shore A)	
ASTM D-2240	: 64
Tear Strength	
ASTM D-624	: 40 kN/m
Split Tear	
ASTM D470	: 10.5 kN/m

Chemical Resistance

(ASTM D3912) 24h immersion :

Chemical Name	Results
Acetic Acid (5%)	R
Anti-freeze	R
Brake fluid (DOT3)	RC
Hydrochloric acid (20%)	R
Motor Oil	R-DIS
Sodium Hydroxide (10%)	R
Sulphuric Acid (10%)	R-DIS
Transmission fluid	R
Jet Fuel JP4	RC
Xylene	RC
Diesel Fuel	R
Gasoline	R

Note : R= recommended
 RC= Recommended Conditions, some effects, including swelling, Discolouration, Cracking - wash down within one hour to avoid effects
 NR = Not recommended
 DIS = Discolouration Only

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Instructions to Use

Surface preparation

All surfaces must be smooth, sound and free from debris, loose or flaking material and areas of standing water. Surfaces must be free from contamination such as oil, grease and organic growth. Concrete surfaces must be fully cured, laitence free and free from any traces of shutter release oils and curing compounds.

To achieve the above, it is recommended that the surface be blast cleaned and all blow holes and imperfections be filled with Nitomortar FC*† or Nitomortar FC(B)*†. Consult the local data sheet for pot life and overcoating times.

Priming

The concrete substrate should be primed using appropriate Fosroc Primer.

For certain steel applications, priming may not be necessary.

Please contact local Fosroc office for recommendation.

Mixing

Fosroc Nukote BGII should not be diluted under any circumstance.

The contents of the two parts A & B, should be separately stirred thoroughly to disperse any settlement. Pour entire contents of Part A into the mixing vessel and stir again. Empty the contents of Part B into the Part A and mix for a minimum of 2 minutes or until a uniform colour is obtained. It is recommended that mechanical mixing using a Jiffy mixer on a heavy duty, slow speed electric drill fitted with a Fosroc Mixing Paddle (MP3).

Application

This material must be applied utilizing a squeegee or notched trowel and spread evenly over the entire deck. The application can be conducted at any temperature, but the curing time will depend on it.

Cleaning

Cured product may be disposed without restriction. The un-cured isocyanate and resin portions should be mixed together and disposed in a normal manner.

Limitations

- Fosroc Nukote BGII is formulated for application to clean, sound concrete and steel.
- Fosroc Nukote BGII should not be opened until ready to use.

Technical support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Estimating

Supply

Fosroc Nukote BGII	:	38 litre kits
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Coverage

Fosroc Nukote BGII	:	141m ² /litre
		@ 1000 microns wft per coat

Note: The coverage figure is theoretical – due to wastage factors and the variety and nature of substrates, practical coverage figures may be reduced.

Storage

Shelf life

All products have a shelf life of 6 months if kept in a dry, air conditioned store between 5°C and 50°C in the original, unopened containers. The use of drum heaters is encouraged to reduce material viscosity at temperatures below 10°C.

Storage conditions

Store in dry conditions at temperatures between 5°C and 50°C in the original, unopened containers. If stored at high temperatures the shelf life will be reduced.



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Precautions

Health and safety

Fosroc Nukote BGII should not come in contact with the skin and eyes, or be swallowed. When using Nucote HT ensure adequate ventilation and avoid inhalation of vapour. Some people are sensitive to resins, hardeners and solvent.

Wear suitable protective clothing, gloves and eye protection. The use of barrier creams provides additional skin protection. In case of contact with the skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately – **do not** induce vomiting.

Fire

Fosroc Nukote BGII is non-flammable.

Flash point

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Pensky-Martin : >93°C

For further information, refer to the Product Material Safety Data.

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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

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair features the following :

- hand-placed repair mortars
- spray grade repair mortars
- fluid micro-concretes
- chemically resistant epoxy mortars
- anti-carbonation/anti-chloride protective coatings
- chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Fosroc office - as below.

* Denotes the trademark of Fosroc International Limited

† See separate data sheet



Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service

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