

### TECHNICAL DATA SHEET

#### PRODUCT DESCRIPTION

**NuCote SB Primer** is a two-component, solvent-based, low viscosity epoxy primer. It is designed for normal weather conditions and modified for deep penetration into concrete substrate and enhanced with adhesion promoter for improved adhesion.

**NuCote SB Primer** is suitable for a wide range of cementitious and resinous substrates. It can be used on concrete to seal porosity and provide deep penetration for better adhesion and strengthening of the weak concrete for overlay with resinous overlay systems. It is both brush and roller applied to concrete/cementitious substrates and with suitable equipment it can be spray applied as well.

#### ADVANTAGES

- Easy to use.
- Low viscosity provides deep penetration.
- Long pot life.
- Short tack free time.
- Long open times
- Very good in re-strengthening weak substrate.

#### USES

- **NuCote SB Primer** is solvent based for priming concrete and resinous substrates.
- **NuCote SB Primer** is designed to penetrate the substrate.
- **NuCote SB Primer** is suitable for strengthening weak substrate.

#### TECHNICAL DATA

DESCRIPTION	RESULTS
Pot Life	60 – 90 Minutes at 25°C
Specific gravity	0.94 ± 0.02 Kg/L
Touch dry	8 - 16 hrs at 25°C
Open time (Minutes)	60 – 70 Minutes
Recoat Time (25C)	3 hrs
Walk on Time (25C)	3 hrs
Mixed Solids content	40 %
Theoretical Coverage	0.100 Kg/m <sup>2</sup> per coat at 40 µm thickness WFT
Recommended thickness	40 – 80 µm WFT per coat.

Note: The values given are average figures achieved in laboratory tests.

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## PACKAGING

**NuCote SB Primer** is supplied as a two component 1 Liter and 5 Liter kit.

## STORAGE AND STABILITY

Store in a cool, dry place on pallets off the ground. Area always to be covered and avoid direct sunlight and high humidity. Shelf life is 12 months from date of manufacture in original packaging.

## SURFACE PREPARATION.

All surfaces should be clean and free from oil, grease, paint, corrosion deposit, dust, laitance, or any other surface contaminants. The substrate must be structurally sound, and any loose or unsound concrete should be removed. The substrate surface should be prepared by captive blasting or grinding to produce a lightly exposed aggregate surface. Any bug hole should be filled with **NuCote Epoxy Grout or NuCote Epoxy Paste**.

## SUBSTRATE REQUIREMENTS.

The substrate should achieve a minimum compressive strength of 25 Mpa, and tensile adhesion strength of 1,5 Mpa. The concrete slab should be tested for moisture using a Rapid RH system following the procedure in ASTM F2170. If the humidity is greater than 80% then conduct a moisture vapor emission rate (MVER) testing using the procedure in ASTM F1869. If the MVER is under 3lbs/1000ft<sup>2</sup>/24hrs, use one coat of NuCote SB Primer. If the MVER is 3 – 5 lbs/1000ft<sup>2</sup>/24hrs, use two coats of **NuCote SB Primer**. If the MVER is over 5 lbs/1000ft<sup>2</sup>/24hrs, apply one coat of **NuCote Moisture Barrier Primer**.

## POT LIFE AND CURING

**NuCote SB Primer** has a 60 - 70 minutes pot life at an ambient temperature of 25°C. The product can be applied at temperatures between 15 and 30°C. Should the temperature increase, an accelerated reaction can be expected.

## MIXING

Premix both base **NuCote SB Primer Part A** and hardener **NuCote SB Primer Part B** to ensure homogeneity. Add all of **NuCote SB part B** to **NuCote SB part A** and mix using a slowly speed drill with an NuCote approved mixing paddle for 2 - 3 minutes until both components have fully dispersed and a homogenous, uniform colour is achieved. Ensure to rotate the mixer inside the container. Only mix full packs.

## APPLICATION INSTRUCTION

Epoxy coatings and floor systems should only be applied by experienced coating applicators. **NuCote** provides detailed application method statements on all its products for use in various coatings and flooring applications. These must be referred to prior to starting work. Information in this datasheet is a summary intended to be used as a guidance only.

Apply in a single coat at the specified thickness using a squeegee. Scrub the product into the pores with a long handle scrub brush and back roll using a short hair roller to achieve a uniform finish. Any porous or absorbed areas still showing after application should be re-coated. For best results it is recommended that NuCote SB Primer be applied onto concrete that is at least 28 days old and has a moisture content of < 5 %. When the substrate moisture content is > 5 % it is recommended that it be primed with **NuCote Moisture Barrier Primer**.

## OVERCOATING

When **NuCote SB Primer** is being overlaid with **NuCote SB Coating, NuCote HB Coating, NuCote CR Coating or NuCote PU SL**, the primer should be allowed to be tack free before overcoating. For all cementitious screed the primer should be overlaid while it is still very much tacky. If the primer is left for longer than 24 hrs at 25°C, the surface must be abraded and solvent degreased, wiped and re-primed.

## CLEANING

Clean hands and skin immediately after use with industrial hand cleaner. Clean tools and equipment immediately after use with **NuCote Cleaner MEK**.

## LIMITATIONS

- Working temperatures between 15 and 30°C.
- **NuCote SB Primer** will not accommodate movement cracks.
- Avoid excessive application.
- Avoid contact with skin.
- Do not release into sewer or surface water.

## DISCLAIMER

Products are sold according to our standard terms and conditions of sale which are available on request and may not be overridden by any other legal documentation. Whilst the information contained herein is true, accurate and represents our best knowledge, the user must contact **NuCote** immediately should any complications occur. Site conditions, labour and application issues are out of our control and the contractor holds this liability. Figures for consumption are estimates and theoretical and do not allow for wastage, surface profiles that are not up to standard, porosity, variations in levels etc.

[www.nucote.co.za](http://www.nucote.co.za)  
011 421 0313



 **NuCote**™  
FLOORING PERFECTION

DISAVOWAL: The customer acknowledges and understands that after delivery, the goods will have left the control of Rigifoam (Pty) Ltd, and that the customer will be responsible for the unpacking of and connection/installation of the goods. The customer acknowledges that it is his/her further responsibility to ensure that a fully qualified and competent person is used to install the goods to ensure their effective operation. Failure by the customer to ensure the installation of the goods, according to the written instructions of the manufacturer and/or supplier, by a fully qualified and competent person, may result in the failure of the goods, injury, loss or damages to the customer. Accordingly, and in this event, Rigifoam (Pty) Ltd accepts no responsibility for any loss or damages that might arise by reason of death or personal injury to any person engaged in the installation or use of the goods thereafter, subject to the provisions of the Consumer Protection Act 68 of 2008.

## HEALTH AND SAFETY INFORMATION

**NuCote SB Primer Part A** contains epoxy resins and flammable solvents. Use only with adequate ventilation. Avoid breathing of vapours and prolonged or repeated skin contact. Protective clothing and gloves should be worn when handling this product. All sources of ignition should be removed.

**NuCote SB Primer Part B** contains amine compounds and flammable solvents. Use only with adequate ventilation and avoid breathing of vapours and prolonged or repeated skin contact. Protective clothing should be worn and contact with the body avoided. All sources of ignition should be removed.

In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice. If inhaled move to fresh air. Consult a physician after significant exposure. If swallowed, clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. In case of skin contact, take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician when in contact with existing open wounds.

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent **Material Safety Data Sheet** containing physical, ecological, toxicological, and other safety-related data.

The Material Safety Data applicable to the handling of epoxy raw materials should be read, understood, and rigidly adhered to. These are available on request from **NuCote**.

## AUTHORISED TECHNICAL PERSONNEL

Please note that only NuCote Authorised Technical Personnel are permitted to change any information in this datasheet or provide recommendations concerning the use of this product. Visit [www.nucote.co.za](http://www.nucote.co.za) for a current datasheet and materials safety datasheet.

## DATASHEET VALIDITY

**NuCote** makes modifications to its datasheets from time to time when needs arises. Please check the current datasheet on [www.nucote.co.za](http://www.nucote.co.za) to ensure you use the latest version.

## WARRANTIES

**NuCote** supplies products that comply with the properties as shown on the current product datasheets. NuCote SB Primer is guaranteed to be free of any manufacturing defects. In the event that products supplied are proved not to comply with these properties, then **NuCote** will replace the non-complaint product or refund the purchase

**NuCote** does not warrant or guarantee the installation of the products as it does not have control of the installation or end use of the products. If **NuCote SB Primer** is applied in accordance with the appropriate method statement issued for the specific project, by an approved applicator, and the substrate complies with the minimum requirements, then the system is to last for the life of the sealer or topcoat applied over it.

We discourage placing **NuCote SB Primer** on a substandard substrate in terms of compressive and tensile adhesion strength, or badly prepared substrate.

**NuCote** makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other representations, warranties, agreements, promises or commitment expressed or implied. **NuCote** shall not be liable for damages of any kind with respect to purchases or use of **NuCote SB Primer**, including remote or consequential damages, down time, delay, and application failures.

In accordance with ISO 9001:2015 and the Occupational Health and Safety Act (Act 85 of 1993), herewith Product and Safety Data Sheet.	
We hereby confirm that we have received a Product and Safety Data Sheet for <b>NuCote™ SB Primer</b> system and are returning the obsolete copies.	
<b>COMPANY NAME:</b>	
<b>SIGNATURE:</b>	
<b>NAME:</b>	
<b>DATE:</b>	

## CAUTION

The information contained in this bulletin is to the best of our knowledge true and accurate but any recommendations or suggestions, which may be made, are without guarantee since the conditions of use are beyond our control. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use.

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