

## TECHNICAL DATA SHEET

## NuCote HB Coating High-Build Epoxy Coating

### PRODUCT DESCRIPTION

**NuCote HB Coating** is a two-component, solvent free, high performance, seamless, high-build, and chemical resistant thixotropic epoxy coating. The system consists of a pre-weighed Part A and Part B. **NuCote HB Coating** is applied by brush or roller and provides a hard wearing, chemical and abrasion resistant floor finish. It is ideally suited for use in areas with foot traffic and lighter loading on the floors.

### ADVANTAGES

- Easy to use (roller and brush applied).
- Good abrasion resistance.
- Solvent free, no odour during applications.
- Resistant to a wide range of industrial chemicals.
- Available in a wide range of colours.
- Non-toxic.
- Resistant to fungal attack.

### APPLICATION AREAS

- Good chemical resistance coatings.
- Steel pipe coatings.
- Coating of water containing structures.
- Floor and wall coatings.
- Production facilities coatings.
- Tanks and silo coatings.

### TECHNICAL DATA

| DESCRIPTION                | RESULTS                                  |
|----------------------------|--|
| Description                | Results                                  |
| Pot Life (Minutes)         | 40 (25°C)                                |
| Specific Gravity (g/l)     | 1.47                                     |
| Touch Dry (Hours)          | 6 hrs                                    |
| Recoat Time (Hours)        | 8 - 24 hrs                               |
| Solids                     | 100 %                                    |
| Minimum WFT                | 500 µm                                   |
| Coverage (m <sup>2</sup> ) | 1 m <sup>2</sup> per litre (at 1 mm WFT) |
| Compressive strength (Mpa) | > 60 Mpa                                 |
| Tensile Strength (Mpa)     | > 10 Mpa                                 |

Note: The above results were obtained under laboratory conditions.

### PACKAGING

**NuCote HB Coating** is supplied as a two component 1 Litre, 5 Litre and 18 Litre kit.

**CHEMICAL RESISTANCE**

Ammonia 10 %

White Spirit

Saturated Sugar Solution

Concentrated bleach

Lactic Acid 10 %

Sulphuric acid 50 %

Sodium Hydroxide 25 %

Kerosene

Petrol

Concentrated bleach

Chlorinated water

Distilled water

**STORAGE AND STABILITY**

Both **NuCote HB Coating Part A** and **Part B** have a shelf life of 12 months from date of delivery when stored in the original containers in a cool, dry place. Failure to do so will result in a reduction of shelf life.

**SURFACE PREPARATION**

Mechanical preparation of the substrate is important before priming with **NuCote MT Primer** takes place. The substrate should be structurally sound and free of oil, dust and debris, grease, paint, corrosion deposits, laitance or other surface deposits. The surface should be prepared by captive blasting to exposed aggregate surface. Any cracks or bug holes should be filled with **NuCote Epoxy Paste** after application of **NuCote MT Primer**. Consult NuCote Technical sales staff for advice on substrate survey and preparation.

**NB:** Prior to carrying out any work, the concrete substrate should be tested to determine the moisture vapour emission rate (MVER) according to test method ASTM F1869 or internal relative humidity (IRH) according to test method ASTM F2170.

**POT LIFE AND CURING**

**NuCote HB Coating** has a 50 - 60 minutes pot life at an ambient temperature of 25°C. The product can be applied at temperatures between 10 and 25°C. Should the temperature increase, an accelerated reaction can be expected.

**MIXING**

Premix both base (Part A) and hardener (Part B) to disperse any settlement and ensure homogeneity. Add all of part B to part A and mix using a slow speed drill (350 – 500 rpm) with a 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**

**Apply NuCote HB Coating** to achieve a minimum of 200 – 300 µm 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 for vertical and horizontal substrate. Where two coats are required, the second coat should be applied within 8 to 24 hours after application of the first coat.

On steel pipes, **NuCote HB Coating** can be applied either by brush or roller.

**CLEANING**

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

**LIMITATIONS**

- Working temperatures between 10 and 25°C.
- **NuCote NuCote HB Coating** will not accommodate movement cracks.
- Avoid contact with skin.
- Do not release into sewer or surface water.

**COLOURS**

|  |               |          |
|--|---------------|----------|
|  | Light Grey    | RAL 7038 |
|  | Basalt Grey   | RAL 7042 |
|  | Pebble Grey   | RAL 7032 |
|  | Platinum Grey | RAL 7036 |
|  | Emerald Green | RAL 6001 |
|  | Beige         | RAL 1001 |
|  | Oyster White  | RAL 1013 |
|  | Traffic Black | RAL 9017 |
|  | Sky Blue      | RAL 5015 |

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 **NuCote**<sup>TM</sup>  
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.

**WATCH POINTS**

Humidity, moisture, and curing of the primers are essential to these systems. The Colours are not UV stable however, functional. They may discolour when exposed to direct sunlight or UV. Storage is also vital to ensure the materials remain in a workable condition.

**DISCLAIMER**

Colours will always vary according to the printed version on our literature. These products are sold according to our standard terms and conditions of sale which is 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 NUI / Rigifoam 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.

**SAFETY AND HANDLING**

**NuCote HB Coating Part A** contains epoxy resins. 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.

**NuCote HB Coating Part B** contains amine compounds. 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.

**HEALTH AND SAFETY INFORMATION**

In the case of contact with 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 urethane raw materials should be read, understood, and rigidly adhered to. These are available on request from NATIONAL URETHANE INDUSTRIES (Pty) Ltd.

|  |  |
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| 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 HB Coating</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.

