

## TECHNICAL DATA SHEET

## NuCote Epoxy SL 1mm Self-Levelling Epoxy Coating

### PRODUCT DESCRIPTION

**NuCote Epoxy SL 1mm** is a three-component, 100 % solid, high performance, self-smoothing, high abrasion resistance and decorative epoxy coating which can be applied both internally and under cover on horizontal surfaces. The system consists of a pre-weighed part A, part B and Part C. Once cured **NuCote Epoxy SL 1mm** provides a hard wearing and abrasion resistant finish.

### ADVANTAGES

- Good abrasion resistance.
- Good adhesion to concrete.
- Easily applied on floors.
- Solvent free, no odour during applications.
- Available in a wide range of colours.
- Non-toxic.
- Simplified mixing.

### APPLICATION AREAS

- High build epoxy coating.
- Production facilities coatings.
- Warehouses floor coatings.
- Smooth epoxy coatings up to 1 mm.

### 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 Epoxy SL 1mm** is supplied as a three component 18 Litre kit.

### STORAGE AND STABILITY

**NuCote Epoxy SL 1mm Part A, Part B** and **Part C** have a shelf life of 12 months when stored in the original containers in a cool, dry place. Failure to do so will result in a

Failure to do so will result in a reduction of shelf life.

#### CHEMICAL RESISTANCE

White Spirit
Saturated Sugar Solution
Concentrated bleach
Kerosene
Petrol
Chlorinated water
Distilled water

#### SURFACE PREPARATION

Mechanical preparation of the substrate is important before priming with **NuCote MT Primer** or **NuCote GP 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**. Ensure moisture content is less than 4%. 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 Epoxy SL 1mm** has a 35 - 45 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 for 2 minutes. Add all of part B to part A and mix using a slow speed drill (450 – 550 rpm) with a NuCote approved mixing paddle for 2 minutes until both components have fully dispersed and a homogenous, uniform colour is achieved. Ensure to rotate the mixer inside the container.

Transfer the mixed material into another mixing container, scraping the sides and bottom of the container, add filler (Part C) while mixing and mix for 3 minutes. No hand mixing is allowed. Only mix full packs

supplied by NuCote / NUI. Under no circumstances should the kits be split.

#### APPLICATION

1 mm Dry Film Thickness (at 18 m<sup>2</sup>/18 litre kit): (Notch Trowel or Pin Leveller Method)  
To achieve a 1 mm DFT, pour mixed material on the floor and rake out using a 2 mm notch trowel, spreading evenly at a thickness of 1,0 – 1,5 mm. De-aerate and level by rolling with a spiked roller for up to 20 minutes after application. Spiked shoes are utilised to walk onto wet material during the levelling and de-aeration process.

**NB:** If cold conditions prevail, the material is thicker. Substrates and material should be warmed to allow for good flow out of the mixed material.



#### 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 Epoxy SL 1mm** 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

#### WATCH POINT

Humidity, moisture, and curing of the primers are essential to these systems.

©Copyright 2021 in respect of this material is reserved in favor of National Urethane Industries (Pty) Ltd and the reproduction or editing thereof is strictly prohibited.

[www.nucote.co.za](http://www.nucote.co.za)  
+27 (0)11 974 9300



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.

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 Epoxy SL 1mm 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 Epoxy SL 1mm 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.

**NuCote Epoxy SL 1mm Part C** contains crystalline quartz and excessive exposure may cause lung damage. Avoid inhalation of dust and wear suitable protective clothing when handling this product.

**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.

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 Epoxy SL 1mm</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.

©Copyright 2021 in respect of this material is reserved in favor of National Urethane Industries (Pty) Ltd and the reproduction or editing thereof is strictly prohibited.

[www.nucote.co.za](http://www.nucote.co.za)  
+27 (0)11 974 9300



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.