

TECHNICAL DATA SHEET

NuCote™ MT Primer

PRODUCT DESCRIPTION

NuCote MT primer is a two-component epoxy-based primer for cementitious and steel substrates which has good moisture tolerance properties. **NuCote MT Primer** is designed to have good penetrating properties on concrete substrates. It is suitable for a wide range of epoxy and polyurethane coatings and flooring systems. It can be applied by brush and roller onto concrete or cementitious substrates.

ADVANTAGES

- Low viscosity
- Compatible with a wide range of coatings and flooring systems.
- High penetration into concrete substrate.
- Coatings and floors can be applied the next day.
- Good moisture tolerance
- Used as a wet to dry primer

APPLICATION AREAS

- Priming for new and old concrete substrates under normal conditions.

DESCRIPTION	RESULTS
Pot Life (Minutes)	40 – 90 (25°C)
Specific Gravity (g/l)	1.05
Touch Dry (Hours)	6 - 8 hrs
Over-coating Time (Hours)	6 - 24 hrs
Solids	100 %
Coverage (m ²)	6 m ² per litre (Depending on wastage and surface profile)

Note: The above results were obtained under laboratory conditions.

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PACKAGING

NuCote MT Primer is supplied as a two-component 5 Litre and 25 Litre kit.

STORAGE AND STABILITY

Both **NuCote MT Primer** 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.

SUBSTRATE REQUIREMENTS

Water vapour emission rate should be tested 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. For concrete slabs with an MVER of less than 3 lbs/1 000 ft² /24 hrs use NuCote MT Primer. If the MVER is between 3 – 5 lbs /1000 ft² /24 hrs use NuCote MT Primer one coat at 200µm wet film thickness. If the MVER is over 5 lbs/1 000 ft²/24 hrs use NuCote MT Primer one coat at 200 µm followed by one or two coats of NuCote Moisture Barrier Primer. It is recommended that the substrate should have a minimum Compressive strength of 25 MPa and a Tensile adhesive strength of 1.5 MPa

SURFACE PREPARATION

Mechanical preparation of the substrate is important before priming with **NuCote MT Primer**. 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 or as per standard practice to exposed aggregate surface. Any cracks or bug holes should be filled with **NuCote Epoxy Paste** after application of **NuCote MT Primer**. Consult with NuCote technical sales staff for advice on substrate survey and preparation.

NEW CONCRETE FLOORS

A new concrete floor shall be at least 28 days old before priming with **NuCote MT Primer**. The surface shall be prepared by light grit blasting, mechanical scabbling or grinding.

EXISTING CONCRETE FLOORS

For existing concrete floors, mechanical surface preparation as described above is highly recommended especially when they are contaminated with oil and grease or have an existing coating. To ensure good adhesion all contamination on the concrete substrate should be removed and the surface cleaned of all dust and any loose particles. Detergent wash and rinsing with water are also recommended for oil contaminated substrates.

POT LIFE AND CURING

NuCote MT Primer has a 40 - 90 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). Add all of Part B to part A and mix using a drill (450 – 500 rpm) with a **NuCote** approved mixing paddle for 2 - 3 minutes until both components have fully dispersed and a homogenous mix is obtained. Ensure to rotate the mixer inside the container. Only mix full packs.

APPLICATION

Apply in a single coat at the specified thickness using a heavy-duty squeegee to a cleaned and prepared surface. 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.

On porous surfaces **NuCote MT Primer** will be absorbed into the surface quickly leaving dry patches. It is recommended that these dry patches be recoated to ensure good adhesion and avoid substrate air release. Apply any topcoat within 6 to 24 hours after application. Any porous or absorbed areas still showing after priming applications, should be primed again.

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 **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.

When over-coating with a trowel finish resin screed: Immediately after application broadcast aggregate (0.95 mm) onto the surface at a ratio of 200 – 250 g/m³.

When over-coating with a cementitious underlayment: Immediately after application broadcast with aggregate (1.3 mm) onto the surface until fully covered.

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 10 and 25 °C.
- **NuCote MT Primer** will not accommodate movement cracks.
- Avoid excessive application.
- Avoid contact with skin.
- Do not release into sewer or surface water.

DISCLAIMER

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 **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.

HEALTH AND SAFETY INFORMATION

NuCote MT Primer 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 MT Primer 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.

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 epoxy raw materials should be read, understood, and rigidly adhered to. These are available on request from **NuCote**.

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 **NuCote™ MT Primer** system and are returning the obsolete copies.

COMPANY NAME:	
SIGNATURE:	
NAME:	
DATE:	

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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