NuCote™
FLOORING PERFECTION

TECHNICAL
DATA SHEET

Issue Date: 27/07/2023
Revised:
Revision No.: 0

NuCote™ RS Primer
Rapid Setting Primer

PRODUCT DESCRIPTION

NuCote RS primer is a cost effective, two-component, rapid setting, solvent free epoxy-based primer for cementitious substrates. **NuCote RS primer** is designed to have good rapid setting properties on various substrates. It is suitable for a wide range of epoxy and polyurethane flooring systems. It can be applied by brush and roller applied onto substrates.

ADVANTAGES

- Low viscosity
- Compatible with a wide range of coatings and flooring systems.
- High penetration into concrete substrate.
- Fast curing

APPLICATION AREAS

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

TECHNICAL DATA

DESCRIPTION	RESULTS
Pot Life (Minutes)	30 – 35 (25ºC)
Specific Gravity (g/l)	1.05
Touch Dry (Hours)	2 - 5 hrs
Over-coating Time (Hours)	4 - 24 hrs
Solids	100 %
Coverage (m²)	6 m² per litre (Depending on wastage and surface profile)

Note: The above results were obtained under laboratory conditions.

www.nucote.co.za
011 421 0313

NuCote™
FLOORING PERFECTION

PACKAGING
NuCote RS Primer is supplied as a two-component 5 Litre kit.

STORAGE AND STABILITY
Both **NuCote RS 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 RS Primer.** If the MVER is between 3 – 5 lbs /1000 ft2 /24 hrs use NuCote RS 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** or **NuCote GP 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 RS 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 RS 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 RS 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 RS Primer has a 30 - 35 minutes pot life at an ambient temperature of 25 °C. The product can be applied at temperatures between 15 and 35 °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 RS 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 4 to 24 hours after application. Any porous or absorbed areas still showing after priming applications, should be primed again.

When over-coating with a trowel finish resin screed: Immediately after application broadcast aggregate onto the surface at a ratio of 200 – 250 g/m2.

When over-coating with a cementitious underlayment: Immediately after application broadcast with aggregate 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 15 and 25 °C.
- NuCote RS Primer will not accommodate movement cracks.
- Avoid excessive application.

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.

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™ RS Primer** system and are returning the obsolete copies.	
COMPANY NAME:	
SIGNATURE:	
NAME:	
DATE:	

HEALTH AND SAFETY INFORMATION

NuCote RS 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 RS 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.**

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.