NuCote™
FLOORING PERFECTION

TECHNICAL
DATA SHEET

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# NuCote™ OT Primer

## PRODUCT DESCRIPTION

**NuCote OT primer** is a two-component, solvent free, moisture tolerant epoxy-based primer for oil or grease contaminated substrates. It is designed to have good penetrating properties into concrete substrates.
**NuCote OT Primer** is suitable for a wide range of epoxy and polyurethane over-coatings and flooring systems. It can be applied by brush and roller onto concrete or cementitious substrates.

## ADVANTAGES

- Can be used on oil-contaminated substrates.
- Low viscosity.
- Eliminates out-gassing of concrete.
- Compatible with a wide range of coating and flooring systems.
- Highly penetrating to concrete substrates.
- Coatings and floors can be applied the next day.

## APPLICATION AREAS

- Priming of new and old oil-contaminated concrete substrates.

| DESCRIPTION | RESULTS |
|---|---|
| Pot Life (Minutes) | 45 - 90 (25ºC) |
| Specific Gravity (g/l) | ± 1.05 |
| Touch Dry (Hours) | 4 - 6 hrs |
| Over-coating Time (Hours) | 6 - 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.



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## PACKAGING
**NuCote OT Primer** is supplied as a two component 5 Litre kit.

## STORAGE AND STABILITY
Both **NuCote OT 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 OT Primer.** If the MVER is between 3 – 5 lbs /1000 ft2 /24 hrs use **NuCote OT Primer** one coat at 200µm wet film thickness. If the MVER is over 5 lbs/1 000 ft2/24 hrs use
**NuCote OT Primer** one coat at 200 µm followed by one or two coats of NuCote Moisture Barrier Primer. It isrecommended 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 OT Primer** takes place. The substrate should be structurally sound and free of dust and debris, 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 OT Primer**. Consult with NuCote technical sales staff for advice on substrate survey and preparation and application specifications.

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

## EXISTING CONCRETE FLOORS
For old concrete floors mechanical surface preparation as described above is highly recommended especially when old concrete is contaminated with oil and grease or has an existing coating. To ensure good adhesion, all contamination on concrete substrate should be removed and the surface cleaned of all dust and loose particles. Detergent wash and rinsing with water are recommended before application of **NuCote OT Primer.**

## POT LIFE AND CURING
NuCote OT Primer has a pot life of 40 - 90 minutes 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 ensure homogeneity. Add all of part B to part A and mix using a slow speed drill (450 – 500 rpm) with an NuCote approved mixing paddle for 2-3 minutes until 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 squeegee or trowel onto 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 substrates, **NuCote OT 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 5 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

(0.95 mm) onto the surface at a ratio of 200 – 250 g/m².
When over-coating with a cementitious underlayment:Immediately after application broadcast with
aggregate (1.3 mm) onto the surface until fully covered.

**NuCote OT Primer** should only be applied by NuCote approved/trained applicators.

## 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 OT 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 OT 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 OT 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 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.<br><br>We hereby confirm that we have received a Product and Safety Data Sheet for NuCote™ OT 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. existing patents covering any material or its use.