

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

NuCote NuCem Terrazzo is a heavy-duty self-smoothing decorative terrazzo polymer cement based screeding system. The product is a high strength screed with rapid setting properties and is shrink compensated. The finish on the flooring system is a smooth polished texture, slip resistant and with terrazzo colours. The product is designed to be applied on both new construction and renovation projects either in residential, commercial, and industrial areas.

ADVANTAGES

- Decorative finish
- High strength
- Abrasion resistant
- Seamless
- Lifetime durability
- Solvent free
- Temperature resistance
- Environmentally friendly

APPLICATION AREAS

- Industrial areas
- Commercial & retail environments
- Residential environments
- Bathrooms & Ablution environments
- Odour free environments
- Processing environments
- Wet and dry areas

DESCRIPTION	RESULTS
Compressive Strength @ 28 Days	> 40 N/mm ²
Flexural Strength @ 28 Days	>7 N/mm ²
Bond strength	>1.5 MPa (concrete failure)
Colours	Please refer to chart
Light traffic	24 hours
Heavy traffic	36 hours
Application thickness	10 mm – 25 mm
Kit yield	31 L
Specific Gravity	2.17
Pot life	30 - 40 minutes
Coverage @ 12 - 10 mm / m ²	± 2,6 m ² per kit

Note: The values given are average figures achieved in laboratory tests and are depending on the size of aggregate used.

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PACKAGING

NuCote NuCem Terrazzo is supplied as a two component 31 Litre kit.

STORAGE AND STABILITY

Store in a cool, dry place on pallets off the ground. Area always to be covered and avoid direct sunlight and high humidity. Shelf life is 12 months from date of manufacture in original packaging.

SURFACE PREPARATION

Remove all laitance, any previous coatings, etc. and ensure sound concrete. Diamond grind/vacu-blast the surface to create a mechanical bond onto the concrete. Remove all dust and loose debris by sweeping and then vacuuming. The surface should have a light sanded profile for the **NuCote NuCem Terrazzo** system. Allow all new concrete work and screeds to cure for at least 4 weeks before proceeding.

SUBSTRATE REQUIREMENTS

Concrete substrates to be a good wood float finish or a steel floated finish with a minimum Mpa compressive strength of 25 MPa. The surface must be laitance free with no dust or loose materials. The moisture content should be monitored and be less than 5 % with no rising damp. Ensure DPM's are placed under the concrete screeds. The substrate must be structurally sound and any screed must be fully bonded to the underlying concrete, and the substrate must not be crumbling or cracking. The substrate to have a tensile adhesion strength of at least 1.5Mpa.

Before 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 or use any approved and reliable substrate moisture testing equipment. For concrete slabs with an MVER of less than 5 lbs/1 000 ft²/24 hrs, use **NuCote GP Primer** one coat at 200 µm wet film thickness for resinous floors or **NuCote NuCem Primer** for cementitious systems. If the MVER is over 5 lbs/1 000 ft²/24 hrs use **NuCote MT Primer** one coat at 200 µm followed by another coat of **NuCote GP Primer** with scatter aggregates (whenever scatter aggregates are specified).

PRIMING

Prime the concrete surface as per our specification with the relevant primer. Alternatives are offered depending on the requirements of the substrate and environment as well as site conditions. The **NuCote GP Primer** or **NuCote MT Primer** with 1,3mm scatter aggregate is the most suitable primer, allow to cure overnight or for at least 6 hours prior to overcoating. Ensure that the scatter aggregates are not covered by the primer. Ensure that all loose aggregate particles are removed, by sweeping and then vacuuming the floor surface. The application conditions are between 15 and 25°C. Should the temperature increase, an accelerated reaction can be expected.

MIXING

For **NuCote GP Primer** or **NuCote MT Primer** see a separate datasheet.

Add 5 litre water into the mixing vessel bucket and decant 2 litres of **NuCote NuCem Part B** into the same mixing vessel or bucket. Add two bags of **NuCote NuCem Terrazzo Part A** and mix for at least 3 – 5 minutes until uniform. Rotate the mixer throughout the mixing buckets or vessel.

PLACING

Pour onto the floor and pull evenly, float the screed using a trowel. As soon as the first mix has been laid, the next mix should be prepared and placed into the previous mix. Allow the screed to settle and cure for 36 hours.

The grinding will then take place within 48 hours while the screed strength is at its optimum. Your first grind will be done using an 80-grit metal bound diamond bit to expose the aggregate. For your second grind you will use a 120-grit metal bound diamond bit. You need to ensure you thoroughly wash and vacuum the floor. Your last grinding stage will be done using a 150-grit metal bound diamond bit.

For your grouting stage, you need to ensure you have a damp surface. Firstly, grout the floor to close any holes using **NuCote GHD Grout** and allow the grout to cure overnight. A second layer of grout is required if you have any pin holes on the floor after the first grouting.

Final stage will be to polish off the excess grout using a 120-grit resin bound diamond pad. The floor needs to be polished to a minimum of 200-grit. Wash and vacuum the floor thoroughly.

MAINTENANCE

Use of any solvent free detergents is advised to keep the floors in good condition.

COLOURS (Customisable)

WATCH POINTS

Humidity, moisture and curing of the primers are essential to these systems. Storage is also vital to ensure the materials remain in a workable condition.

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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.

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 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

Please read the Materials safety datasheet as supplied by us for this product to ensure compliance with the OHS Act NO. 85 of 1993. The finished system is not hazardous to health or environment.

In case of contact with the 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 **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.

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™ NuCem Terrazzo system and are returning the obsolete copies.	
COMPANY NAME:	
SIGNATURE:	
NAME:	
DATE:	

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