

PRODUCT DESCRIPTION

NuCote PU RT is a heavy-duty, trowel and broadcast applied polyurethane floor screed, based on a 3-part liquid polyurethane flooring system. The product incorporates various degrees of non-slip finishes for slip resistant Polyurethane screeding. The floor surface results in a textured surface of uniform colour, designed for excellent resistance to abrasion, chemical attack, impact and thermal shock.

ADVANTAGES

- Fluid consistency.
- Excellent adhesion.
- Anti-Microbial Silver Ion protection.
- Easy maintenance.
- Seamless flooring.
- Heat resistant to 80°C.
- High resistance to chemicals, abrasion, impact, and thermal shock.
- Non-slip matt finish.
- Environmentally friendly.
- Solvent free.

APPLICATION AREAS

- Chemical processing plants.
- Wet or dry process areas.
- Breweries.
- Food processing plants.
- Freezers & kitchens.
- Packaging plants.
- HACCP environments.
- Non odour and non-tainting to food articles.
- Engineering & fabrication workshops.
- Laboratories.

TECHNICAL DATA

DESCRIPTION	RESULTS
Compressive Strength	55 N/mm ²
Tensile Strength	6.5 N/mm ²
Flexural Strength	40 N/mm ²
Bond strength	> 1.5 N/mm ² (Concrete failure)
Colours	Please refer to chart
VOC	3 g/Lt
Water Absorption	< 0.2 %
Elastic Mod.	1350 N/mm ²
Impact Resistance Drop Test	Drop Test < 3 mm
Heavy traffic	48 hours
Light traffic	24 hours
Abrasion Resistance Accelerated	Accelerated < 0.03 mm
Chemical Resistance	Acids and sugars
Kit yield	28 L
Pot life	15 minutes
Est. Coverage @ 5 mm	5 m ² /kit
Est. Coverage @ 6 mm	4.7 m ² /kit

Note: The values given below are average figures achieved in laboratory tests.

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PACKAGING

NUCOTE PU RT is supplied as a three component 28 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 6 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 PU RT** system.

SUBSTRATE REQUIREMENTS

Concrete substrates to be of a good wood float finish or a steel floated finish with a minimum compressive strength of 25 MPa and 1.5 MPa in tensile adhesion strength. The surface must be laitance free with no dust or loose materials. The moisture content should always be monitored and be less than 5 % with no rising damp. Ensure DPM's are placed under the concrete screeds.

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** or **NuCote PU Primer** one coat at 200 µm wet film thickness for resinous floors. 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 Moisture Barrier Primer** with scatter aggregates (whenever scatter aggregates are specified).

PRIMING

Prime the concrete surface as per our specification with the specified primer. Alternatives are offered depending on the requirements of the substrate and environment as well as site conditions. The **NuCote GP Primer**, **NuCote MT Primer** or **NuCote PU Primer** is the most common primer, allow to cure overnight or for at least 16 hours prior to overcoating. Maximum overcoating time of 48 hours else preparation needs to be redone to ensure a chemical and mechanical bond. Ensure application conditions are between 15 and 25°C.

MIXING

Ensure that all resins are mixed in the containers prior to decanting by shaking well. Decant Part A into a mixing vessel or bucket, start mixing for 1 minute then add Part B and mix till uniform. Then add the Part 3 (aggregate bag) and continue to mix for a further 2 minutes until uniform, lump free and trowel consistency.

PLACING

Place onto the floor then trowel and then spike roll / apply a light mohair roller to the surface for a more even finish or smoother consistency. Spike roll out the areas where the mixes meet if required. It is important to plan the mixing station and pouring due to the short pot life. Allow to set and cure accordingly.

MAINTENANCE

Constant and regular cleaning is vital to any resin flooring system. Use of any solvent free detergents is advised to keep the floors in good condition.

CLEANING

Clean hands and skin immediately after use with industrial hand cleaner. Clean tools and equipment immediately after use with **NuCote Cleaner A** or **NuCote Cleaner MEK**.

LIMITATIONS

- Do not apply **NuCote PU RT** at temperatures below 15°C. Avoid excessive heat (30°C and higher).
- Slab temperature: > 15°C.
- **NuCote PU RT** will not accommodate movement cracks as it is a rigid system.
- Foot traffic is allowable in approximately 12 - 16 hours.
- Application thickness: 5 - 6 mm.

SAFETY AND HANDLING

Please read the Materials safety datasheet as supplied by us for this product to ensure compliance with the OHS Act 85 of 1993. The finished system is not hazardous to health or environment.

COLOURS

	Agate Grey	RAL 7038
	Basalt Grey	RAL 7012
	Umbra Grey	RAL 7022
	Beige	RAL 1001
	Emerald Green	RAL 6001
	Honey Yellow	RAL 1005
	Ruby Red	RAL 3003

WATCH POINTS

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

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 **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 PU RT system and are returning the obsolete copies.

COMPANY NAME:

SIGNATURE:

NAME:

DATE:

CAUTION

www.nucote.co.za
011 421 0313



 **NuCote**TM
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.