

TECHNICAL DATA SHEET

NuCote PU UT Heavy Duty Textured Screed

PRODUCT DESCRIPTION

NuCote PU UT is a heavy-duty trowel and broadcast applied polyurethane floor topping based on a 3-part liquid polyurethane resin system. The product incorporates various degrees of non-slip finishes for slip resistant in 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.

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	Please refer to chart
Colours	8g/Lt
VOC	<0.2%
Water Absorption	1350 N/mm ²
Elastic Mod.	Drop Test <3mm
Impact Resistance Drop Test	24 hours
Heavy traffic	12-16 hours
Light traffic	Accelerated <0.03mm
Abrasion Resistance Accelerated	Acids and sugars
Chemical Resistance	13 L
Kit yield	3.25 m ² /kit
Pot life	2.6 m ² /kit
Est. Coverage @ 2mm	55 N/mm ²
Est. Coverage @ 3mm	6.5 N/mm ²

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

PACKAGING

NUCOTE PU UT is supplied as a three component 25 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.

ADVANTAGES

- Fast installation.
- 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.

SURFACE PREPARATION

Remove all laitance any previous coatings etc and ensure sound concrete. Diamond grind/vaccu-blasting or scarifying 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 UT** system. Ensure concrete is a minimum of 25mpa in strength.

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 MT Primer** is the most common primer, allow to cure over night 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 10 and 25 °C.

MIXING

Set up the mixing station as close to the floor surface as possible. Open the bags before starting to ensure no time is wasted between mixes.

Before mixing, turn the resin bottle upside down and shake vigorously to homogenize and emulsify. Decant into mixing vessel and begin mixing. Then add the hardener while mixing and mix for 1 minute until uniform. Then, while mixing add the aggregate portion to the mix and mix for a further 2 minutes until uniformly wetted out.

SUBSTRATE REQUIREMENTS

Concrete substrates to be a good wood float finish or a steel floated finish with a minimum Mpa compressive strength of 20-25. The surface must be laitance free with no dust of 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.





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 X (Xylene)**.

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

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 **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.

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 NUI / Rigifoam 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.

contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use.

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 NATIONAL URETHANE INDUSTRIES (Pty) Ltd.

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 UT 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

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