

TECHNICAL DATA SHEET

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NuCote PU MD

Medium Duty PU Screed 3-4mm

PRODUCT DESCRIPTION

NuCote PU MD Self-Levelling, hard wearing, medium duty, flowable polyurethane floor topping based on a 3-part liquid and powder polyurethane resin system. The product presents good abrasion and impact resistant properties incorporating bacterial resistance.

NuCote PU MD renders a smooth texture, slip resistant surface with very good abrasion, chemical resistance, and impact resistance. This system is durable for various environments especially with higher traffic i.e.: Forklifts etc.

ADVANTAGES

- · Flowable Self smoothing
- Chemical resistant
- Abrasion resistant
- Seamless
- Impact resistance
- Non-slip finish
- · Solvent free
- Temperature resistance
- Anti-bacterial properties
- Environmentally friendly
- · Highly trafficable

APPLICATION AREAS

- Warehousing
- Lighter duty kitchens
- Packaging and printing
- Bakeries
- · Butchery front of house
- Food preparation areas
- Beverage Processing
- Fabrication and engineers' environments
- · Chemical resistant areas
- HACCP compliant areas

Compressive Strength 55 N/mm² Tensile Strength 6.5 N/mm² Flexural Strength 40 N/mm² Bond strength >1.5MPa (concrete failure) Colours Please refer to chart VOC 3 g/Lt Water Absorption <0.2 % Elastic Mod. 1350 N/mm² Impact Resistance Drop Test <3 mm Heavy traffic 24 hours Light traffic 12-16 hours Abrasion Resistance Accelerated <0.03 mm Chemical Resistance Accelerated <0.03 mm Kit yield 19 L Pot life <15 minutes	DESCRIPTION	RESULTS
Flexural Strength Bond strength Colours Please refer to chart VOC 3 g/Lt Water Absorption Elastic Mod. Impact Resistance Drop Test Heavy traffic Light traffic Abrasion Resistance Accelerated Chemical Resistance Kit yield Pot life Abrasion Resistance Acids and sugars Kit possible Acids and sugars Kit yield Pot life A N/mm² All N/m	Compressive Strength	55 N/mm ²
Bond strength >1.5MPa (concrete failure) Colours Please refer to chart VOC 3 g/Lt Water Absorption <0.2 % Elastic Mod. 1350 N/mm² Impact Resistance Drop Test <3 mm Heavy traffic 24 hours Light traffic 12-16 hours Abrasion Resistance Accelerated <0.03 mm Chemical Resistance Accelerated <4 color and sugars Kit yield 19 L Pot life <15 minutes	Tensile Strength	6.5 N/mm ²
Colours Please refer to chart VOC 3 g/Lt Water Absorption Colours Voc Water Absorption Colours Voc Signature Voc Voc Voc Voc Voc Voc Voc Vo	Flexural Strength	40 N/mm ²
VOC 3 g/Lt Water Absorption <0.2 % Elastic Mod. 1350 N/mm² Impact Resistance Drop Test <3 mm Heavy traffic 24 hours Light traffic 12-16 hours Abrasion Resistance Accelerated <0.03 mm Chemical Resistance Accelerated Acids and sugars Kit yield 19 L Pot life <15 minutes	Bond strength	>1.5MPa (concrete failure)
Water Absorption <0.2 % Elastic Mod. 1350 N/mm² Impact Resistance Drop Test <3 mm Heavy traffic 24 hours Light traffic 12-16 hours Abrasion Resistance Accelerated <0.03 mm Chemical Resistance Accelerated Acids and sugars Kit yield 19 L Pot life <15 minutes	Colours	Please refer to chart
Elastic Mod. 1350 N/mm² Impact Resistance Drop Test < 3 mm Heavy traffic 24 hours Light traffic 12-16 hours Abrasion Resistance Accelerated < 0.03 mm Chemical Resistance Accelerated Acids and sugars Kit yield 19 L Pot life < 15 minutes	VOC	3 g/Lt
Impact Resistance Drop Test < 3 mm Heavy traffic 24 hours Light traffic 12-16 hours Abrasion Resistance Accelerated < 0.03 mm Chemical Resistance Acids and sugars Kit yield 19 L Pot life < 15 minutes	Water Absorption	<0.2 %
Heavy traffic 24 hours Light traffic 12-16 hours Abrasion Resistance Accelerated < 0.03 mm Chemical Resistance Acids and sugars Kit yield 19 L Pot life < 15 minutes	Elastic Mod.	1350 N/mm ²
Light traffic 12-16 hours Abrasion Resistance Accelerated < 0.03 mm Chemical Resistance Acids and sugars Kit yield 19 L Pot life < 15 minutes	Impact Resistance Drop Test	< 3 mm
Abrasion Resistance Accelerated < 0.03 mm Chemical Resistance Acids and sugars Kit yield 19 L Pot life < 15 minutes	Heavy traffic	24 hours
Chemical Resistance Acids and sugars Kit yield 19 L Pot life < 15 minutes	Light traffic	12-16 hours
Kit yield 19 L Pot life < 15 minutes	Abrasion Resistance Accelerated	< 0.03 mm
Pot life < 15 minutes	Chemical Resistance	Acids and sugars
	Kit yield	19 L
	Pot life	< 15 minutes
Est. Coverage @ 3mm 6.3 m² per kit	Est. Coverage @ 3mm	6.3 m² per kit
Est. Coverage @ 4mm 4.75 m² per kit	Est. Coverage @ 4mm	4.75 m² per kit

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

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PACKAGING

NUCOTE PU MD is supplied as a three component 19 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 MD** system. Ensure the concrete substrate has a minimum of 25 MPa in compressive strength, 1.5 MPa in tensile adhesion strength and less than 5 % moisture content.

PRIMING

Prime the concrete surface as per our specification with the relevant specified primer. Alternative primers are offered depending on the requirements of the substrate and environment as well as site conditions. The **NuCote GP Primer** or **NuCote PU Primer** are the most common primers. Allow to cure over night or for at least 12 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

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

PLACING

Pour onto the floor and rake and trowel, then spike roll to remove all the air entrapped. 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 X.

LIMITATIONS

- Working temperatures between 10 and 25°C.
- NuCote PU MD will not accommodate movement cracks.
- · Avoid contact with skin.
- · Do not release into sewer or surface water.

COLOURS

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

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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.

SAFETY AND HANDLING

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

HEALTH AND SAFETY INFORMATION

In 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**.

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 PU MD system and are returning the obsolete
1
copies.
COMPANY NAME:
SIGNATURE:
NAME:
DATE:

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