NuCote™
FLOORING PERFECTION

TECHNICAL DATA SHEET

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NuCote PU Primer
Polyurethane Primer

PRODUCT DESCRIPTION

NuCote PU Primer is a three component, polyurethane and cement-based primer. This is designed for use with **NuCote PU SL, NuCote PU MD, NuCote PU HD, NuCote PU GHD, NuCote PU UT** and **NuCote PU WR.** Once cured **NuCote PU Primer** provides an excellent bonding to both the concrete substrate and the subsequent polyurethane applications on top and it also forms a barrier that results in the reduction of pinholes or blow holes formation on the topcoat

ADVANTAGES

- Excellent adhesion to concrete substrates.
- Low VOC
- Abrasion resistance
- Impact resistance
- Thermal shock resistance
- Solvent free
- Suitable for food processing areas.
- Anti-bacterial properties
- Environmentally friendly
- Highly trafficable

APPLICATION AREAS

•A primer with excellent with excellent adhesion properties to concrete.

DESCRIPTION	RESULTS
Compressive Strength	> 50 N/mm^2
Tensile Strength	>6.5 N/mm^2
Flexural Strength	>20 N/mm^2
Bond strength	>1.5MPa (concrete failure)
Hardness	80 Shore D
VOC	3 g/Lt
Water permeability (Karsten Test)	Nil
Overcoat Time	1350 N/mm^2
Impact Resistance Drop Test	Minimum 12 hours and Maximum 48 hours
Heavy traffic	24 hours
Light traffic	12-16 hours
Abrasion Resistance Accelerated	<0.03mm
Chemical Resistance	Acids and sugars
Kit yield	5 Litre
Pot life	< 15 minutes
Est. Coverage @ 0,25mm	20m² per 5 Litre Kit
Colour	Cream

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

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PACKAGING
NUCOTE PU Primer is supplied as a three component 5 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
The substrate must be concrete or polymer modified cementitious screed that has a minimum compressive strength of 25Mpa and tensile adhesion strength of 1,5Mpa. The moisture content of the substrate must be less than 5%.

Remove all laitance, any previous coatings etc. and ensure sound concrete. Diamond grind/abrasive blast or scarify the surface to create a mechanical bond onto the concrete. Remove all dust and loose debris by sweeping and then vacuuming, to obtain a dry and dust free surface. Ensure that grooves of 5mm x 5mm run parallel to and 150mm from all columns, walls, finish edges and expansion joints. The concrete substrate should be free from all previous coatings, unbonded concrete laitance, oil, and chemical contamination.

PRIMING
Prime the concrete surface as per our specification with the **NuCote PU Primer**. Alternative primers are offered depending on the requirements of the substrate and environment as well as site conditions. Allow the applied primer to cure 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 15 and 25°C.

MIXING
Ensure that all resins are mixed in the containers prior to decanting by shaking well. Decant **NuCote PU Primer** Part A into a mixing vessel or bucket, add **NuCote PU Primer** Part B and mix for 1 minute. Then add **NuCote PU Prime**r Part C (aggregate bag) and continue to mix for a further 2 minutes until uniform, lump free and flowable consistency is achieved. Set up the mixing station as close to the floor as possible. It is recommended that two mixing vessels/buckets be used to ensure that time between mixes is minimized.

PLACING
Pour out the mix onto the floor and trowel or squeegee out into place. Trowel out the primer as thinly as possible enough to achieve a minimum of 0,25 mm wet film thickness. Once applied on the substrate the primer should provide a wet look. On porous surfaces more of the **NuCote PU Primer** is to be applied until the concrete substrate is completely wetted out. Do not allow the primer to cure for longer than 48 hours before screeding over. If the 48 hours has lapsed, then perform a light grind and apply a new layer of primer. Some of the topcoat screed require the primed surface to be broadcast with scatter aggregates in which case a specified appropriate size scatter aggregates should be used. On coving and walls the **NuCote PU Primer** must be broadcast with scatter aggregates onto wet primer to assist with bonding on vertical applications.

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 15 and 25°C.
- **NuCote PU Primer** will not accommodate movement cracks.
- Avoid contact with skin.
- Do not release into sewer or surface water.

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.

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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.**

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 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.