NuCote™
FLOORING PERFECTION

TECHNICAL
DATA SHEET

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NuCote™ UVGuard
UV stable coating

PRODUCT DESCRIPTION

NuCote UVGuard is a twin pack, UV stable polyurethane coating system that offers a high gloss or matt finish. The coating is flexible and has good resistance to various chemicals. It has excellent bond strength onto concrete and various other surfaces. It is used as a coating to seal various cementitious materials. This coating is versatile and easy .

ADVANTAGES

- Aliphatic (UV stable coating).
- High Solids content.
- Durable.
- Gloss and matt finishes.
- Flexible.
- Excellent bonding onto various surfaces.
- Rapid drying.
- Good abrasion and impact resistance.
- Easy to apply.

APPLICATION AREAS

- Suitable for interior and exterior use.
- Can be applied onto horizontal and vertical surfaces.
- Hardy thin film coating for garages and trafficked areas that are not too harsh.
- Good chemical resistance.

TECHNICAL DATA

COMPONENT DESCRIPTION	NuCote UVGuard Part A		NuCote UVC Part B
	Gloss	Matt	
Viscosity cps @ 25 °C	100 - 150	110 - 300	< 200
Density gm/cc @ 25 °C	0.97		1.02
Non-Volatile Content %	41 %	42 %	52.5 %
Mixed Volume Solids %	36 %	41 %	
MIX RATIO & COVERAGE	**NuCote UVGuard Part A**		**NuCote UVC Part B**
Ratio Parts by Volume	4		1
Pot Life @ 25 °C	2 hours		
Coverage (m²)	8-10 m² per litre (at 80 µm WFT)		
Minimum WFT	200 µm		
DRYING TIMES AFTER APPLICATION			
Touch Dry	< 3 Hours		
Recoat Time	4 - 24 Hours		
Hard Dry	24 Hours		
Full Cure	7 Days		

www.nucote.co.za
011 421 0313

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PACKAGING
NuCote UVGuard is supplied as a 2 component 5 Litre kit.

STORAGE AND STABILITY
NuCote UVGuard Part A and NuCote UVC Part B have a shelf life of 6 months from date of delivery when stored in the original containers in a cool, dry place. Failure to do so will result in a reduction of shelf life.

SURFACE PREPARATION
Mechanical preparation of the substrate is important before applying **NuCote UVGuard**. The substrate should be structurally sound and free of oil, dust and debris, grease, paint, corrosion deposits, laitance, or other surface deposits. The surface should be prepared by means of a light sand or grind. Any cracks or bug holes should be filled **NuCote Epoxy Paste**. Consult **NuCote** Technical sales staff for advice on substrate survey and preparation.

SUBSTRATE REQUIREMENTS
Ensure the concrete substrate has a minimum of 25 MPa in compressive strength, 1.5 MPa in tensile strength and less than 5 % moisture content.
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).

POT LIFE AND CURING
NuCote UVGuard has a 2-hour pot life at an ambient temperature of 25°C. The product can be applied at temperatures between 15 and 25°C. Should the temperature increase, an accelerated reaction can be expected.

MIXING
- Premix base (Part A) to disperse any settlement and to ensure homogeneity.
- Add all of Part B to part A and mix using a slow speed drill (350 – 500 rpm) with a mixing paddle for 2 - 3 minutes until both components have fully dispersed and a homogenous, uniform colour is achieved.
- Ensure to rotate the mixer inside the container. Only mix full packs.

APPLICATION
Apply **NuCote UVGuard** to achieve a minimum of 200 µm film thickness using a roller. Two to three coats are required, the second coat should be applied within 4 to 24 hours after application of the first coat.

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

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.

WATCH POINTS
Humidity, moisture and curing of the primers are essential to these systems. The systems are UV stable however they may slightly discolour over time. Storage is also vital to ensure the materials remain in a workable condition.

DISCLAIMER
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 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.

EQUIPMENT REQUIREMENTS
5 l buckets, spike shoes, paint rollers, paint brushes.

HEALTH AND SAFETY INFORMATION
NuCote UVGuard Part A contains flammable solvents and should be stored in a cool, well-ventilated area.

NuCote UVC Part B is a diisocyanate and will react with moisture generating carbon dioxide. The containers should be stored with seals intact and opened containers used first. The reaction with moisture/water can lead to dangerous build-up of pressure in the drums.

Therefor partially used containers must be tightly resealed after use, preferably after a dry nitrogen gas purge to prevent ingress of moisture. Empty drums should not be closed and for safety reasons a hole should be made in the container. The empty drums must be decontaminated with decontamination solution (See Material Safety Data Sheet).
NuCote UVC Part B contains solvents and should be stored in a cool environment. The atmospheric mist generated during spraying is toxic and can cause damage to eyes and respiratory system. Wear suitable protective equipment and use only in well-ventilated areas.

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.

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.

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™ UVGuard 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