NuCote™
FLOORING PERFECTION

TECHNICAL
DATA SHEET

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NuCote™ HB Coating
High-Build Epoxy Coating

PRODUCT DESCRIPTION

NuCote HB Coating is a two-component, solvent free, high performance, seamless, high-build, and chemical resistant thixotropic epoxy coating. The system consists of a pre-weighed Part A and Part B. **NuCote HB Coating** is applied by brush or roller and provides a hard wearing, chemical and abrasion resistant floor finish. It is ideally suited for use in areas with foot traffic and lighter loading on the floors.

ADVANTAGES

- Easy to use (roller and brush applied).
- Good abrasion resistance.
- Solvent free, no odour during applications.
- Resistant to a wide range of industrial chemicals.
- Available in a wide range of colours.
- Non-toxic.
- Resistant to fungal attack.

APPLICATION AREAS

- Good chemical resistance coatings.
- Steel pipe coatings.
- Coating of water containing structures.
- Floor and wall coatings.
- Production facilities coatings.
- Tanks and silo coatings

TECHNICAL DATA

DESCRIPTION	RESULTS
Pot Life (Minutes)	60 Minutes (25ºC)
Specific Gravity (g/l)	± 1.47
Touch Dry (Hours)	6 – 8 hrs
Recoat Time (Hours)	8 - 24 hrs
Solids content	100 %
Minimum WFT	Minimum 200 µm
Coverage (m²)	5 m² per litre (at 200 µm WFT)
Compressive strength (MPa)	> 60 MPa
Tensile Strength (MPa)	> 10 MPa
Slant Shear Strength (Mpa)	> 25 Mpa

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

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PACKAGING
NuCote HB Coating is supplied as a two component 5 Litre and 25 Litre kit.

STORAGE AND STABILITY
Both **NuCote HB Coating Part A and Part B** have a shelf life of 12 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 priming with NuCote MT Primer takes place. 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 captive blasting to exposed aggregate surface. Any cracks or bug holes should be filled with **NuCote Epoxy Paste** after application of **NuCote MT Primer**. Consult NuCote Technical sales staff for advice on substrate survey and preparation.

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 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.
NB: Prior to 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 Nu-Cote Moisture Barrier Primer with scatter aggregates (whenever scatter aggregates are specified.

POT LIFE AND CURING
NuCote HB Coating has a 50 - 60 minutes 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 ensure homogeneity. Add all of part B to part A and mix using a slow to medium speed drill with an **NuCote** approved 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 HB Coating** to achieve a minimum of 200 – 300 µm using a squeegee. Scrub the product into the pores with a long handle scrub brush and back roll using a short hair roller to achieve a uniform finish for vertical and horizontal substrate. Where two coats are required, the second coat should be applied within 8 to 24 hours after application of the first coat. On steel pipes, **NuCote HB Coating** can be applied either by brush or roller.

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
- Working temperatures between 15 and 25°C.
- NuCote HB Coating will not accommodate movement cracks

COLOURS

	Light Grey	RAL 7038
	Basalt Grey	RAL 7042
	Pebble Grey	RAL 7032
	Platinum Grey	RAL 7036
	Emerald Green	RAL 6001
	Beige	RAL 1001
	Oyster White	RAL 1013
	Traffic Black	RAL 9017
	Sky Blue	RAL 5015

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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.

HEALTH AND SAFETY INFORMATION

NuCote HB Coating Part A contains epoxy resins. Use only with adequate ventilation. Avoid breathing of vapours and prolonged or repeated skin contact. Protective clothing and gloves should be worn when handling this product.

NuCote HB Coating Part B contains amine compounds. Use only with adequate ventilation and avoid breathing of vapours and prolonged or repeated skin contact. Protective clothing should be worn and contact with the body avoided. All sources of ignition should be removed.

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 epoxy 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™ HB Coating** 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.